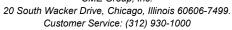
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 ${\it CME\ Group,\ Inc.}$



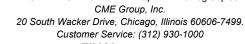




Side 01

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

					ENERGY OPTIONS	ON FUTURES	5							
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT. & PT.			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX [®] VOLUME		OPEN EREST
CALL		BRENT 1 MONTH	d CALENDAR OPTIO											
50 OTAL						0.00	-	0.01					 0 -	100 100
P18 50 DTAL						0.08	-	0.01	.3018				 1000 1000	UNC
CALL		BRENT AVERAGE	E PRICE OPTION											
300 900 L500 DTAL						7.85 0.01 0.01	+	0.19 UNCH UNCH	.9955 .0112 				 25 100 21 146	UNC UNC UNC
000 000 000 1500							+ +	1.28 0.42 UNCH	.9446 .3511 .0027				 25 100 20	UNC UNC UNC
OTAL IG18 900							+	1.21	.9003				 145 25	UNC
900 900 L500 DTAL							+	0.62 UNCH	.4073				 100 19 144	UNC
P18 900 200 900						6.39	+ + +	1.15 1.05 0.68	.8380 .7359 .4248				 25 115 100	UNC UNC
1500 DTAL T18						0.02	т	UNCH	.0053				 18 258	UNC
L500 DTAL						0.06	+	0.03	.0130				 17 17	UNC
0V18 L500 DTAL						0.08	+	0.04	.0164				 16 16	UNC
C18 550 L500 DTAL						4.84 0.11	+ +	0.84 0.04	.5119 .0210				 135 15 150	UNC
N19 750 350						0.55	++	0.11 0.10	.0974				 75 25 15	UNC
L500 DTAL :B19							+	0.03	.0252				 115	UNC
750 350 L500 DTAL			====		====	0.72 0.65 0.17	+ +	0.11 0.09 0.03	.1088 .0997 .0291				 75 25 14 114	UNC UNC
R19 775 750							++	0.59 0.11	.4640 .1200				 125 75	UNC
350 L500 DTAL							+	0.10 0.03	.1114 .0365				 25 13 238	UNC
PR19 750 350 L500					 	0.90	+++++	0.19 0.17 0.10	.1302 .1212 .0475				 75 25 13	UNC UNC
TAL 119 750						1.09	+	0.08	.1382				 113 75	UNC
350 L500 DTAL						1.01	+	0.07	.1295 .0504				 25 12 112	UNC
IN19 750 750 350					 	1.21	+++++	0.50 0.04 0.03	.4620 .1465 .1381				 110 75 25	UNC UNC UNC
L500 DTAL JL19							+	0.01	.0562				 12 222	UNC
750 350 L500						1.22	+ + +	0.09 0.08 0.04	.1521 .1439 .0617				 75 25 11	UNC UNC
OTAL IG19 750						1.38	+	0.14	.1568				 111 75	UNC
350 L500 DTAL						1.30 0.53	+	0.14 0.12	.1488 .0660				 25 11 111	UNC
P19 750 350							+++++	0.15 0.15 0.11	.1607 .1529 .0701				 75 25 10	UNC UNC
L500 DTAL T19													110	
750 350 L500 DTAL						1.40	+ +	0.16 0.16 0.10	.1618 .1541 .0733				 75 25 10 110	UNC UNC
v19 750 350			====			1.41 1.33	+	0.16 0.15	.1566 .1488				 75 25	UNC
L500 DTAL EC19						0.55	+	0.08	.0672				 9 109	UNC
750 350 L500							+ + +	0.14 0.13 0.08	.1512 .1434 .0636				 75 25 9 109	UNC UNC
OTAL N20 O45													103	



Side 02

FINAL

63 Side 02

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THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CE.											
•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		SETT. & PT.			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN EREST
BA CALI JAN20 11500 TOTAL		BRENT AVERAGE	PRICE OPTION			(.49	+	0.07	.0617					9 134	UNCH
FEB20 7045 11500 TOTAL						8		++	0.40 0.07	.5671 .0743					125 8 133	UNCH UNCH
MAR20 7045 11500 TOTAL								++	0.37 0.07	.5627 .0758					125 8 133	UNCH UNCH
APR20 6955 11500 TOTAL						8	3.91).77	+	0.34 0.09	.5742 .0842					125 8 133	UNCH UNCH
MAY20 6955 11500 TOTAL					====			++	0.32 0.06	.5694 .0723					125 7 132	UNCH UNCH
JUN20 6955 11500 TOTAL					====			+ +	0.34 0.01	.5648 .0738					125 7 132	UNCH UNCH
JUL20 6900 11500 TOTAL					====			+ +	0.33 0.04	.5700 .0807					130 7 137	UNCH UNCH
AUG20 6900 11500 TOTAL		====			====			+	0.32 0.07	.5651 .0866					130 7 137	UNCH UNCH
SEP20 6900 11500 TOTAL		====			====	8		+	0.29 0.09	.5608 .0922					130 6 136	UNCH UNCH
OCT20 11500 TOTAL NOV20						1	.02	+	0.13	.1010					6 6	UNCH
11500 TOTAL DEC20 11500							0.98	+	0.09	.0982					6 6	UNCH
TOTAL JAN21 11500								+	0.06	.0987					6 6 6	UNCH
TOTAL FEB21 11500 TOTAL						C	.99	+	0.04	.0986					6 6	UNCH
MAR21 11500 TOTAL APR21						1	.00	+	0.03	.0992					5 5	UNCH
11500 TOTAL MAY21 11500							01	-	0.01 UNCH	.1010					5 5	UNCH
TOTAL JUN21 11500							06		UNCH	.1029					5 5 5 5	UNCH
TOTAL JUL21 11500 TOTAL						1	10		UNCH	.1054					5 5	UNCH
AUG21 11500 TOTAL SEP21						1	13		UNCH	.1073					5 5	UNCH
11500 TOTAL OCT21 11500							16	_	UNCH 0.01	.1091					5 5	UNCH
TOTAL NOV21 11500							22		0.01	.1127					5 5 4 4	UNCH
TOTAL DEC21 11500 TOTAL						1	26	+	0.02	.1151					4 4 4	UNCH
JAN22 11500 TOTAL FEB22						1	31	+	0.04	.1181					4 4	UNCH
11500 TOTAL MAR22							35		0.06	.1204					4 4	UNCH
11500 TOTAL APR22 11500							53	+	0.07	.1306					4 4 4	UNCH
TOTAL MAY22 11500 TOTAL						1	48	+	0.08	.1278					4 4 4	UNCH
JUN22 11500 TOTAL						1	. 52	+	0.08	.1300					4 4	UNCH
JUL22 11500 TOTAL AUG22							55		0.07	.1316					4 4	UNCH
THE INI	FORMATIO ED BY TH	N CONTAINED IN E USER ON THE C	THIS REPORT IS CONDITION THAT ER	RORS OR OMISSIONS	NVENIENCE OF THE US SHALL NOT BE MADE ight CME Group Inc.	THE BAS	IS FC	OR A	NY CLAI	ITHOUT F	RESPONSI ND, OR C	BILITY FO	OR ACCURA	CY OR CON	ITENT. IT	IS

ENERGY OPTIONS

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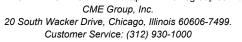
20 South Wacker Drive, Chicago, Illinois 60606-7499. Customer Service: (312) 930-1000 **FINAL**

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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT & PT			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX [®] VOLUME	INTE	OPEN REST
BA CALL AUG22			GE PRICE OPTION											
11500 TOTAL						1.59	+	0.06	.1337				 4 4	UNCH
SEP22 11500						1.64	+	0.06	.1364				 4	UNCH
TOTAL OCT22 11500 TOTAL						1.77	+	0.08	.1433				 4 4	UNCH
NOV22 11500 TOTAL						1.72	+	0.05	.1406				 3 3	UNCH
DEC22 11500 TOTAL						1.76	+	0.03	.1427				 3 3	UNCH
JAN23 11500 TOTAL						1.80	+	0.02	.1448				 3	UNCH
FEB23 11500 TOTAL						1.84	+	0.01	.1468				 3 3	UNCH
MAR23 11500 TOTAL						1.88		UNCH	.1488				 3 3	UNCH
APR23 11500 TOTAL						1.92	-	0.01	.1508				 3 3	UNCH
MAY23 11500 TOTAL						1.98	-	0.01	.1538				 3 3	UNCH
JUN23 11500 TOTAL						2.04	-	0.01	.1568				 3	UNCH
JUL23 11500 TOTAL						2.10	-	0.01	.1597				 3	UNCH
AUG23 11500 TOTAL						2.15	-	0.02	.1620				 3 3	UNCH
SEP23 11500 TOTAL						2.21	-	0.02	.1649				 3 3	UNCH
0CT23 11500 TOTAL						2.27	-	0.01	.1677				 3 3	UNCH
BA PUT JUN18 5420 TOTAL		BRENI AVERAG	GE PRICE OPTION			0.01		UNCH	.0015				 25 25	UNCH
JUL18 5500 6000						0.01 0.01		UNCH UNCH	.0001				 25 190 215	UNCH UNCH
TOTAL AUG18 5500 6000						0.01 0.03	_	UNCH 0.01	.0030				 25 190	UNCH UNCH
TOTAL SEP18 5500						0.04		0.01	.0095				 215	UNCH
6000 TOTAL						0.13	-	0.03	.0296				 190 215	UNCH
OCT18 6000 TOTAL						0.30	-	0.02	.0537				 190 190	UNCH
NOV18 6000 TOTAL						0.51	-	0.08	.0766				 190 190	UNCH
DEC18 6000 TOTAL JAN20						0.80	-	0.04	.1015				 190 190	UNCH
6450 TOTAL FEB20						5.61	-	0.12	.3199				 125 125	UNCH
6450 TOTAL MAR20						5.75	-	0.12	.3251				 125 125	UNCH
6450 TOTAL						5.93	-	0.13	.3299				 125 125	UNCH
APR20 6350 TOTAL						5.86	-	0.12	.3188				 125 125	UNCH
MAY20 6350 TOTAL						5.84	-	0.11	.3228				 125 125	UNCH
JUN20 6350 TOTAL JUL20						6.02	-	0.09	.3278				 125 125	UNCH
6275 TOTAL AUG20						5.91	-	0.08	.3202				 130 130	UNCH
6275 TOTAL SEP20						6.10	-	0.05	.3254				 130 130	UNCH
6275 TOTAL						6.26	-	0.04	.3297				 130 130	UNCH

BRENT CRUDE OIL 1 M CSO FIN



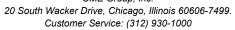




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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRI & PT.CHG			EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN REST
9C CAL AUG18	L	BRENT CRUDE	OIL 1 M CSO FIN	N										
35 40						0.01 0.01	UNCH UNCH	.0506 .0192					500 3500	UNCH UNCH
50 55						0.01 0.01	UNCH	.0016 .0003					4056 2000	UNCH UNCH
60 65						0.01 0.01	UNCH	.0000					4850 1500	UNCH
70 75						0.01 0.01	UNCH						2300 500	UNCH
80 85						0.01 0.01	UNCH						1000 1000	UNCH
90 100						0.01 0.01	UNCH						1500 3800	UNCH
TOTAL						0.01	ONCIT						26506	ONCH
SEP18 35						0.12	UNCH	.4348					500	UNCH
40 45						0.11 0.10	UNCH	.3896 .3498					3500 1000	UNCH
50 55						0.09 - 0.08 -	0.01	.3138					7056 2000	UNCH
60 65						0.07 0.05 -	UNCH 0.01	.2489					4500 1500	UNCH
70 75						0.04 - 0.04	0.01 UNCH	.1685 .1586					2300 500	UNCH
80 85						0.03 0.02 -	UNCH 0.01	.1277					1000 1000	UNCH
90 100						0.02 0.01	UNCH	.0896					1500 3800	UNCH
TOTAL						0.01	Official	.0310					30156	OHEIT
OCT18 35						0.15	UNCH	.4318					500	UNCH
40 50						0.14 0.10	UNCH	.3960					3000 6056	UNCH
55 60						0.09 0.07 -	UNCH 0.01	.2863					1000 3500	UNCH
70 75						0.05 0.04	UNCH	.1859					6800 500	UNCH
80 85						0.04 0.03	UNCH	.1486					1000 1000	UNCH
90 100						0.02 0.02	UNCH	.0894					500 2000	UNCH
TOTAL						0.02	o.ve.r						25856	o.re.r
NOV18 35						0.19 -	0.01	.4839					500	UNCH
40 50						0.19 - 0.17 - 0.14 -	$0.01 \\ 0.01$.4450 .3752					3000 5056	UNCH UNCH
55 60						0.12 - 0.11	0.01 UNCH	.3386 .3105					1000 3500	UNCH UNCH
70 75						0.08 0.07	UNCH	.2465					6800 500	UNCH
80 85						0.06 0.05	UNCH	.1951 .1695					1000 1000	UNCH
90 100						0.04	UNCH	.1434					500 2000	UNCH
TOTAL						0.03	o.ve.r	.1103					24856	o.ve.i
DEC18 35						0.20 +	0.01	.5082					500	UNCH
40 50						0.18 0.17 +	UNCH 0.01	.4679 .4050					3000 5056	UNCH UNCH
55 60						0.15 + 0.13 +	0.01	.3718 .3382					1000 3500	UNCH
70 75						0.10 + 0.09 +	$0.01 \\ 0.01$.2780 .2534					6800 500	UNCH UNCH
80 85						0.07 0.06	UNCH	.2164 .1916					1000 1000	UNCH UNCH
90 100						0.05 0.04	UNCH	.1666 .1348					500 2000	UNCH
TOTAL													24856	
JAN19 50						0.13 +	0.02	.4032					1000	UNCH
65 TOTAL						0.08	UNCH	.2827					1000 2000	UNCH
FEB19														
50 65						$ \begin{array}{rrr} 0.15 & + \\ 0.10 & + \end{array} $	$0.03 \\ 0.01$.4191 .3091					1000 1000	UNCH UNCH
TOTAL MAR19													2000	
50						0.15 + 0.11 +	0.02	.4072 .3110					1000 1000	UNCH UNCH
65 TOTAL						0.11 +	0.01	.3110					2000	UNCH
APR19						0.16 +	0.03	.4172					1000	UNCH
50 65						0.10 +	0.01	.3148					1000 1000 2000	UNCH
TOTAL MAY19													2000	
50 65						0.16 + 0.11 +	0.02 0.01	.4116 .3111					1000 1000	UNCH UNCH
TOTAL						0.11 +	0.01	.5111					2000	ONCIT
JUN19 50						0.18 +	0.03	.4044					1000	UNCH
65						0.13 +	0.01	.3172					1000 2000	UNCH
TOTAL JUL19														
50 65						0.17 + 0.12 +	0.02	.3911 .3029					1000 1000	UNCH UNCH
													2000	
TOTAL						0.18 +	0.02	.4141					1000	UNCH
TOTAL AUG19 50						0.13 +	0.01	.3239					1000 2000	UNCH
AUG19 50 65														
AUG19 50 65 TOTAL SEP19							0.02	.4082						UNCH
AUG19 50 65 TOTAL						0.19 + 0.14 +	0.01	.3244					1000 1000	UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL														
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19 50						0.14 +	0.01	.4037					1000 2000 1000	UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19		====				0.14 +	0.01	.3244					1000 2000	UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19 50 65 TOTAL NOV19						0.14 + 0.19 + 0.14 +	0.01 0.02 0.01	.4037 .3213					1000 2000 1000 1000 2000	UNCH UNCH UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19 50 65 TOTAL NOV19 50 65						0.14 +	0.01	.4037			====		1000 2000 1000 1000 2000	UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19 65 TOTAL NOV19 50 65 TOTAL NOV19 50 65 TOTAL				====	=====	0.14 + 0.19 + 0.14 +	0.01 0.02 0.01	.4037 .3213				====	1000 2000 1000 1000 2000	UNCH UNCH UNCH
AUG19 50 65 TOTAL SEP19 50 65 TOTAL OCT19 50 65 TOTAL NOV19 50 65				====	=====	0.14 + 0.19 + 0.14 +	0.01 0.02 0.01	.4037 .3213				====	1000 2000 1000 1000 2000	UNCH UNCH UNCH

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Side 05

FINAL

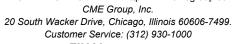
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THE N	NOMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	Œ.									
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRI & PT.CHG		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTER	OPEN REST
9C CAL DEC19			DIL 1 M CSO FIN			0.13	0.01	2172					1000	
65 TOTAL						0.13 +	0.01	.3173					1000 2000	UNCH
9C PUT AUG18			DIL 1 M CSO FIN											
10 20						0.02 - 0.07 -	$0.01 \\ 0.01$.2186				1500	1000 - 4800	1500 UNCH
30 TOTAL						0.15	UNCH	.9318				1500	2500 8300 -	UNCH 1500
SEP18 10						0.08 +	0.01	.3121					2500	UNCH
20 25						0.10 0.12 +	UNCH 0.01	.3976					2800 1000	UNCH
30 TOTAL						0.14 +	0.01	.5119					2500 8800	UNCH
OCT18						0.11	UNCH	2540					2500	UNCU
10 20 30						0.11 0.14 0.19	UNCH	.3540 .4352 .5275					2500 2300 1000	UNCH UNCH UNCH
TOTAL						0.13	ONCIT	.5275					5800	ONCH
NOV18 10						0.11 +	0.01	.3261					2500	UNCH
20 30						0.14 0.18	UNCH UNCH	.3962 .4753					2400 1000	UNCH UNCH
35 TOTAL						0.21	UNCH	.5160					100 6000	UNCH
DEC18 10						0.10 -	0.01	.3050					2500	UNCH
20 25						0.10 - 0.13 - 0.15 -	0.01	.3742					2400 200	UNCH
30						0.17 -	0.01	.4518					1100 6200	UNCH
TOTAL													0200	
B70 C/		BRENT CRUDE (OTI FUT MARCIN ORT											
BZO CA AUG18 6200	ALL	BRENT CRUDE C	OIL FUT MARGIN OPT			14.31	UNCH	1.0000					0	UNCH
6250 6300						13.81 13.31	UNCH	1.0000					0 0	UNCH
6350 6400						12.81 12.31	UNCH	1.0000					0	UNCH
6450 6500						11.81 11.31	UNCH UNCH	1.0000 1.0000					0	UNCH UNCH
6550 6650						10.81 9.81	UNCH UNCH	$1.0000 \\ 1.0000$					0	UNCH UNCH
6700 6750						9.31 8.81	UNCH	1.0000 1.0000					0 0	UNCH
6800 6850						8.31 7.81	UNCH	1.0000					0	UNCH
6900 7000						7.31 6.31	UNCH	1.0000					0	UNCH
7150 7200						4.81 4.31 3.81	UNCH UNCH UNCH	1.0000 1.0000 1.0000					0 0 0	UNCH UNCH UNCH
7250 7300 7350						3.31 2.81	UNCH	1.0000					0	UNCH
7400 7450						2.31 1.81	UNCH	1.0000					0 0	UNCH
7500 7550						1.31 0.81	UNCH UNCH	1.0000 1.0000					0	UNCH
7600 7650						0.31 0.00	UNCH UNCH	$1.0000 \\ 1.0000$					0 0	UNCH UNCH
7700 7750						0.00 0.00	UNCH UNCH	$1.0000 \\ 1.0000$					0	UNCH UNCH
7800 TOTAL						0.00	UNCH						0	UNCH
SEP18 5450			#22.10B/	#22.10B/		22.97 +	1.32	.9995					100	UNCH
5500 5550			22.89B/ 22.38B/	22.89B/ 22.38B/		22.47 + 21.97 +	1.32	.9993					450 150	UNCH
5600 6000			21.89B/ 17.88B/	21.89B/ 17.88B/		21.47 + 17.48 +	1.32	.9988					200 150	UNCH
6100 6300			16.90B/ 14.90B/	16.90B/ 14.90B/		16.48 + 14.50 +	1.31 1.30	.9932 .9866					2100 200	UNCH UNCH
6350 6450			14.42B/ 13.44B/	14.42B/ 13.44B/		14.00 + 13.01 +	1.30 1.29	.9862 .9825					300 350	UNCH UNCH
6500 6550			12.94B/ 12.44B/	12.94B/ 12.44B/		12.52 + 12.03 +	1.29	.9791					100 50	UNCH
6600 6700			11.96B/ 10.98B/ 10.50B/	11.96B/ 10.98B/ 10.50B/		11.54 + 10.56 + 10.08 +	1.28 1.26 1.26	.9722 .9647 .9582					200 150 450	UNCH UNCH UNCH
6750 6800 6900			10.09B/ 9.13B/	10.09B/ 9.13B/		9.60 + 8.65 +	1.25	.9516					1250 250	UNCH
7000 7200			8.19B/ 6.39B/	8.19B/ 6.39B/		7.71 + 5.94 +	1.20	.9154					400 122	UNCH
7250 7300			5.96B/ 5.54B/	5.96B/ 5.54B/		5.52 + 5.11 +	$\frac{1.10}{1.07}$.8283 .8050					354 25	UNCH UNCH
7350 7400			5.13B/ 4.74B/	5.13B/ 4.74B/		4.72 + 4.34 +	$\frac{1.04}{1.00}$.7787 .7507					28 257	UNCH UNCH
7450 7500			4.36B/ 4.00B/	4.36B/ 4.00B/		3.98 + 3.63 +	0.96	.7204 .6888					324 3050	UNCH
7550 7600 7650			3.66B/ 3.34B/ 3.03B/	3.66B/ 3.34B/ 3.03B/		3.31 + 3.00 + 2.71 +	0.88 0.84 0.80	.6547 .6199 .5841					38 634 19	UNCH UNCH UNCH
7650 7700 7750	2.22 1.88	2.22 1.88	2.74B/2.21A 2.49B/1.77A	2.74B/2.21A 2.49B/1.77A		2.71 + 2.44 + 2.19 +	0.80 0.75 0.71	.5477			685 10		732 + 815	577 UNCH
7800 7850	1.58	1.58	2.24B/1.57A 2.01B/	2.24B/1.57A 2.01B/		1.96 + 1.75 +	0.66 0.62	.4746 .4388			10		725 - 190	5 UNCH
7900 7950			1.80B/ 1.60B/	1.80B/ 1.60B/		1.56 + 1.38 +	0.58 0.53	.4041 .3700					183 120	UNCH UNCH
8000 8050	1.41	1.41	1.43B/1.12A 1.27B/	1.43B/1.12A 1.27B/		1.23 + 1.09 +	0.49 0.46	.3384 .3081				500	16774 + 126	295 UNCH
8100 8150	1.02	1.02	1.12B/0.87A 0.99B/	1.12B/0.87A 0.99B/		0.97 + 0.85 +	0.43	.2803					429 + 67	5 UNCH
8200 8250	0.61	0.61	0.88B/ 0.78B/0.60A	0.88B/ 0.78B/0.60A		0.75 + 0.67 +	0.35	.2280			50		806 116 +	UNCH 30
8300 8350	0.62 0.37	0.62 0.37	0.69B/0.53A 0.61B/0.37 0.54B/	0.69B/0.53A 0.61B/0.37 0.54B/		0.59 + 0.52 + 0.46 +	0.29 0.26 0.23	.1856 .1665 .1494			5 41 	1000	920 + 41 + 1000 +	5 8 650
8400 8500 8550	0.19	0.19	0.34B/ 0.42B/0.19 0.38B/	0.42B/0.19 0.38B/		0.46 + 0.37 + 0.33 +	0.23 0.20 0.18	.1221			150		3121 + 49	150 UNCH
8650 8700	0.18	0.18	0.30B/0.18 0.27B/	0.30B/0.18 0.27B/		0.33 + 0.27 0.24 +	NEW 0.13	.0905			30		25 + 50	25 UNCH
8750 8800			0.25B/ 0.23B/	0.25B/ 0.23B/		0.22 + 0.20 +	$0.12 \\ 0.11$.0743 .0676					48 74	UNCH
8850 8900	0.21	0.21	0.21/0.17A 0.19B/	0.21/0.17A 0.19B/		0.18 + 0.17 +	$0.10 \\ 0.10$.0611 .0571			50 		50 + 100	2 UNCH
8950 9000			0.17B/ 0.16B/	0.17B/ 0.16B/		0.15 + 0.14 +	0.09	.0509					2874	UNCH
9050 9100			0.14B/ 0.13B/	0.14B/ 0.13B/		0.13 + 0.12 +	0.08	.0436					106 100	UNCH
THE IN	NFORMATIO	N CONTAINED IN	THIS REPORT IS CON	MPILED FOR THE COM	VENIENCE OF THE	USER AND IS FURN	NISHED N	WITHOUT F	RESPONSI	BILITY FO	OR ACCURA	CY OR CO	NTENT. IT	IS

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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER	OPEN OUTCRY	GLOBEX® VOLUME		(INTER	OPEN PEST
BZO CA			DIL FUT MARGIN OP		CLOSE RANGE	W FI.CHGE.	DELTA	CISES	VOLUME	VOLUME	VOLUME	INTER	KESI
SEP18 9300			0.09в/	0.09B/		0.08 + 0.04	.0271					81	UNCH
9350 9500 9600	0.08	0.08	0.08/0.08 0.06B/ 0.05B/	0.08/0.08 0.06B/ 0.05B/		0.08 NEW 0.06 + 0.03 0.05 + 0.02	.0265 .0200 .0167			87 		87 + 500 32	87 UNCH UNCH
9650 9700			0.05B/ 0.05B/	0.05B/ 0.05B/		$ \begin{array}{rrrr} 0.05 + 0.02 \\ 0.05 + 0.03 \end{array} $.0164 .0161					60 12	UNCH
9750 9800			0.04B/ 0.04B/	0.04B/ 0.04B/		0.05 + 0.03 $0.04 + 0.02$.0158 .0130					35 150	UNCH
9900 10150			0.03B/	0.03B/		0.04 + 0.02 0.03 + 0.01	.0126					154 100	UNCH
11300 11450						0.01 UNCH 0.01 UNCH 0.01 UNCH	.0011 .0008 .0005					150 196 160	UNCH UNCH UNCH
11600 12150 12550						0.01 UNCH 0.01 UNCH	.0001					317 149	UNCH
13000 TOTAL						0.01 UNCH	.0000			1128	1500	134 43660 +	UNCH 1829
OCT18 6400			13.73B/	13.73B/		13.39 + 1.30	.9478					250	UNCH
6500 6800			12.78B/ 10.10B/	12.78B/ 10.10B/		12.44 + 1.29 9.68 + 1.23	.9365 .8856					105 400	UNCH
6850 7000			9.66B/ 8.36B/	9.66B/ 8.36B/		9.24 + 1.21 7.96 + 1.17	.8738 .8326					400 550	UNCH
7100 7200			7.53B/ 6.74B/ 6.36B/	7.53B/ 6.74B/ 6.36B/		7.14 + 1.13 6.36 + 1.08 5.99 + 1.07	.8005 .7638 .7436					800 400 300	UNCH UNCH UNCH
7250 7400 7450			5.28B/ 4.94B/	5.28B/ 4.94B/		4.95 + 0.99 4.62 + 0.96	.6775 .6542					300 53	UNCH
7500 7550			4.62B/ 4.31B/	4.62B/ 4.31B/		$ \begin{array}{rrrr} 4.31 & + & 0.93 \\ 4.01 & + & 0.90 \end{array} $.6299 .6052					259 325	UNCH UNCH
7650 7700			3.73B/ 3.48B/	3.73B/ 3.48B/		3.45 + 0.84 3.20 NEW	.5544 .5287				100	50 100 +	UNCH 100
7750 7800			3.22B/ 2.98B/ 2.14B/	3.22B/ 2.98B/ 2.14B/		2.96 + 0.79 2.73 + 0.76 1.95 + 0.63	.5030 .4774 .3785				150 	300 + 120 251	150 UNCH UNCH
8000 8200 8300			1.52B/ 1.27B/	1.52B/ 1.27B/		1.37 + 0.51 1.14 + 0.45	.2906 .2518					14 800	UNCH
8500 8800	0.75	0.75	0.89B/0.75 0.54B/	0.89B/0.75 0.54B/		$ \begin{array}{r} 0.81 + 0.35 \\ 0.49 + 0.23 \end{array} $.1891 .1216			100		611 + 200	100 UNCH
8850 8900			0.50B/ 0.46B/	0.50B/ 0.46B/		$ \begin{array}{r} 0.45 + 0.21 \\ 0.42 + 0.20 \end{array} $.1127					14 36	UNCH
8950 9000 9100	0.24	 0.24	0.43B/ 0.40B/ 0.34B/0.24	0.43B/ 0.40B/ 0.34B/0.24		0.39 + 0.19 0.36 + 0.17 0.31 NEW	.0985 .0915 .0795			 55		20 500 55 +	UNCH UNCH 55
9200 9350			0.30B/ 0.24B/	0.30B/ 0.24B/		0.27 + 0.13 0.22 + 0.10	.0696					400 123	UNCH
9450 9500			0.21B/ 0.20B/	0.21B/ 0.20B/		$ \begin{array}{r} 0.20 + 0.10 \\ 0.18 + 0.09 \end{array} $.0516 .0470					24 57	UNCH UNCH
9800 10000			0.14B/ 0.12B/	0.14B/ 0.12B/		0.12 + 0.05 0.10 + 0.05	.0318				175	150 700 -	UNCH 175
10300 10600 11200			0.08B/ 0.06B/	0.08B/ 0.06B/		0.07 + 0.03 0.05 + 0.01 0.03 UNCH	.0184 .0131 .0077					50 99 286	UNCH UNCH UNCH
11600 12150						0.02 UNCH 0.01 - 0.01	.0051 .0016					149 100	UNCH
13750 14500						0.01 UNCH 0.01 UNCH	.0000					214 100	UNCH
TOTAL NOV18										155	425	9665 +	230
6500 6750			12.72B/ 10.62B/	12.72B/ 10.62B/		12.42 + 1.25 10.22 + 1.19	.9027 .8542					300 250	UNCH UNCH
7700 8000			3.97B/ 2.64B/	3.97B/ 2.64B/		3.70 NEW 2.45 + 0.66	.5199 .3949				150 	150 + 200	150 UNCH
8400 8450			1.48B/ 1.37B/ 1.27B/	1.48B/ 1.37B/ 1.27B/		$ \begin{array}{r} 1.38 + 0.47 \\ 1.28 + 0.44 \\ 1.19 + 0.42 \end{array} $.2553					250 32	UNCH
8500 8850 9500			0.77B/ 0.35B/	0.77B/ 0.35B/		1.19 + 0.42 0.72 + 0.28 0.32 + 0.13	.2267 .1483 .0704					1000 50 1500	UNCH UNCH UNCH
9750 9850			0.27B/ 0.24B/	0.27B/ 0.24B/		$ \begin{array}{r} 0.24 + 0.09 \\ 0.22 + 0.09 \end{array} $.0536 .0490					11 29	UNCH
9900 TOTAL			0.23B/	0.23B/		0.21 + 0.09	.0467				150	66 3838 +	UNCH 150
DEC18 5100			25.97B/	25.97B/		25.65 + 1.34	.9860					65	UNCH
5200 5400			25.00B/ 23.02B/	25.00B/ 23.02B/		24.67 + 1.34 22.71 + 1.33	.9827 .9759					600 800	UNCH
5500 5550			22.05B/ 21.57B/ 20.12B/	22.05B/ 21.57B/ 20.12B/		21.74 + 1.33 21.25 + 1.32 19.81 + 1.32	.9711 .9693 .9599					1200 1000 200	UNCH UNCH UNCH
5700 6000 6050			17.27B/ 16.80B/	17.27B/ 16.80B/		19.81 + 1.32 16.97 + 1.31 16.50 + 1.30	.9353					3025 202	UNCH
6100 6150			16.34B/ 15.86B/	16.34B/ 15.86B/		16.04 + 1.30 15.58 + 1.29	.9249 .9190					200 301	UNCH
6200 6250			15.40B/ 14.95B/	15.40B/ 14.95B/		15.12 + 1.28 14.67 + 1.28	.9131 .9062					1105 505	UNCH
6300 6350 6400			14.50B/ 14.05B/ 13.61B/	14.50B/ 14.05B/ 13.61B/		14.22 + 1.27 13.77 + 1.26 13.33 + 1.25	.8991 .8920 .8838					705 350 509	UNCH UNCH UNCH
6450 6500			13.17B/ 12.70B/	13.17B/ 12.70B/		12.89 + 1.24 12.46 + 1.23	.8756 .8665					105 2075	UNCH UNCH
6550 6600			12.27B/ 11.85B/	12.27B/ 11.85B/		12.04 + 1.23 11.61 + 1.21	.8565 .8471					800 501	UNCH UNCH
6650 6700			11.44B/ 11.16B/ 10.75B/	11.44B/ 11.16B/ 10.75B/		11.20 + 1.21 10.79 + 1.19 10.38 + 1.18	.8362 .8252 .8140					1200 700 250	UNCH UNCH UNCH
6750 7000 7300			8.80B/ 6.71B/	8.80B/ 6.71B/		$\begin{array}{c} 10.38 + 1.18 \\ 8.46 + 1.12 \\ 6.40 + 1.01 \end{array}$.8140 .7486 .6550					2725 1100	UNCH UNCH UNCH
7500 7500 7550			5.48B/ 5.20B/	5.48B/ 5.20B/		5.21 + 0.93 4.94 + 0.91	.5853 .5673					1798 100	UNCH UNCH
7650 7800			4.68B/ 3.94B/	4.68B/ 3.94B/		4.43 + 0.87 3.74 + 0.81	.5311					150 375	UNCH
7850 8000 8200			3.72B/ 3.11B/ 2.42B/	3.72B/ 3.11B/ 2.42B/		3.52 + 0.79 2.94 + 0.72 2.28 + 0.63	.4587 .4060 .3393			 50		250 1000 200 +	UNCH UNCH 50
8200 8500 9000			1.65B/ 0.89B/	1.65B/ 0.89B/		1.55 + 0.48 0.84 + 0.30	.2529					1103 4300	UNCH UNCH
9500 10000			0.51B/ 0.31B/	0.51B/ 0.31B/		$ \begin{array}{r} 0.49 + 0.20 \\ 0.30 + 0.13 \end{array} $.0930 .0586					2200 14050	UNCH UNCH
10500 11250			0.20B/ 0.11B/	0.20B/ 0.11B/		$\begin{array}{cccc} 0.20 & + & 0.09 \\ 0.11 & + & 0.04 \end{array}$.0393 .0218					100 20	UNCH UNCH
TOTAL JAN19										50		45869 +	50
6500 7450						12.52 + 1.19 5.87 + 0.95	.8354 .5870					200 225	UNCH UNCH
TOTAL FEB19												425	
7500 8000						5.82 + 0.93 3.59 + 0.70	.5597 .4126					100 100	UNCH UNCH
TOTAL												200	
MAR19 6400 7250						13.43 + 1.06 7.54 + 0.89	.8045 .6165					200 200	UNCH UNCH
7250 THE IN	FORMATIO	N CONTAINED IN	THIS REPORT IS CO	OMPILED FOR THE CO	NVENIENCE OF THE	7.54 + 0.89 USER AND IS FURNISHED THE BASIS FOR ANY CLA	WITHOUT RI	ESPONSI	BILITY F	OR ACCURA	CY OR CO		
ACCEPT	וח ום כב	L OSER ON THE C	C.IDIIION IIIMI EKK	© Copyr	ight CME Group In	c. All rights reserved	, DEMANI	-, on C	FUR	ACTION.			

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Side 07

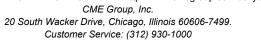
PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	Œ.									
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.P & PT.C		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
BZO CA MAR19	LL	BRENT CRUDE O	OIL FUT MARGIN OF	PT										
7500 8000						6.13 + 3.90 + 2.37 +	- 0.67	.5504 .4152 .2924					650 100 100	UNCH UNCH UNCH
8500 TOTAL						2.37 +	0.43	.2924					1250	UNCH
JUN19 6400						13.48 +		.7575					100	UNCH
6500 6800 7250						12.77 + 10.74 + 7.99 +	0.80	.7397 .6825 .5873					1500 100 200	UNCH UNCH UNCH
7350 7500						7.44 + 6.65 +	- 0.72 - 0.67	.5648 .5303					900 825	UNCH UNCH
8000 8300						4.46 + 3.48 +	- 0.48	.4146					600 500	UNCH
9500 TOTAL						1.31 +	- 0.23	.1629					100 4825	UNCH
DEC19 6500						12.69 +		.6866					1000	UNCH
8000 8500 9000						5.07 + 3.55 + 2.54 +	- 0.36	.4080 .3196 .2478					2000 500 1000	UNCH UNCH UNCH
9500 10500						1.87 + 1.12 +	0.19	.1929					8000 12000	UNCH
TOTAL BZO PU	т	RPENT CRUDE O	OIL FUT MARGIN OF	OT.									24500	
AUG18 7250						0.00	UNCH						0	UNCH
7300 7350						0.00	UNCH UNCH						0	UNCH UNCH
7400 7450						0.00 0.00 0.00	UNCH UNCH UNCH						0 0 0	UNCH UNCH UNCH
7500 7600 7650						0.00 0.00 0.19	UNCH						0	UNCH
7700 7750						0.69 1.19	UNCH UNCH						0	UNCH UNCH
7800 7850						1.69 2.19 2.69	UNCH	1.0000					0 0 0	UNCH
7900 7950 8000						3.19 3.69	UNCH UNCH UNCH	1.0000 1.0000 1.0000					0	UNCH UNCH UNCH
8050 8250						4.19 6.19	UNCH	1.0000					0	UNCH
TOTAL SEP18													0	
3500 4500						0.01 0.01	UNCH UNCH						400 1800	UNCH UNCH
5000 5500						0.01 0.01	UNCH UNCH	.0000					1650 2300	UNCH UNCH
5750 5800			 /*0.02A	 /*0.02A		0.01 - 0.01 - 0.02 -		.0025 .0032 .0062					350 550 150	UNCH UNCH UNCH
5950 6000 6050						0.02 - 0.02 - 0.02 -	0.01	.0064					1696 46	UNCH
6200 6250			/*0.04A	/*0.04A		0.03 - 0.03 -	0.01	.0099 .0102					255 46	UNCH UNCH
6300 6350			/*0.04A /*0.05A /*0.05A	/*0.04A /*0.05A /*0.05A		0.04 - 0.04 - 0.05 -	0.02	.0133 .0137 .0169					200 300 17	UNCH UNCH UNCH
6400 6450 6500			/*0.03A /*0.06A /*0.07A	/*0.03A /*0.06A /*0.07A		0.05 - 0.06 -	0.03	.0175					50 2176	UNCH
6550 6600			/*0.07A /*0.08A /*0.09A	/*0.07A /*0.08A		0.07 - 0.08 -	0.03	.0242 .0277					50 250	UNCH UNCH
6650 6700			/*0.09A /*0.10A /*0.12A	/*0.09A /*0.10A /*0.12A		0.09 - 0.10 - 0.12 -	0.06	.0314					54 1537	UNCH
6750 6800 6850			/*0.13A /*0.15A	/*0.12A /*0.13A /*0.15A		0.12 - 0.14 - 0.16 -	0.07	.0417 .0483 .0552					44 700 27	UNCH UNCH UNCH
6900 6950			/*0.17A /*0.20A	/*0.17A /*0.20A		0.19 - 0.22 -	0.09	.0647 .0744					350 5	UNCH
7000 7100	0.26	0.26	0.29B/*0.23A /*0.32A /*0.37A	0.29B/*0.23A /*0.32A /*0.37A		0.25 - 0.35 - 0.41 -	0.15	.0845			5 		1410 + 1198	UNCH
7150 7200 7250	0.49	0.49 0.55	0.54B/*0.43A 0.63B/*0.50A	0.54B/*0.43A 0.63B/*0.50A		0.41 - 0.48 - 0.56 -	0.19	.1311 .1504 .1717			10 10		250 453 644	UNCH UNCH UNCH
7300 7350	0.80	0.80	0.80/*0.58A /*0.68A	0.80/*0.58A /*0.68A /*0.79A		0.65 - 0.76 -	0.25	.1949 .2213				500	759 + 76	170 UNCH
7400 7450			/*0.79A /*0.91A /*1.05A	/*0./9A /*0.91A /*1.05A		0.88 - 1.02 - 1.17 -	0.36	.2492 .2795 .3112			300 	 150	783 39 1434 +	UNCH UNCH 100
7500 7550 7600			/*1.21A /*1.39A	/*1.21A /*1.39A		1.35 - 1.54 -	0.44	.3452					51 359	UNCH
7650 7700			/*1.59A /*1.80A	/*1.59A /*1.80A		1.75 - 1.98 -	0.52	.4158 .4522			840	500	67 1530 +	UNCH 1293
7800 7850 7900			/*2.28A /*2.55A /*2.85A	/*2.28A /*2.55A /*2.85A		2.50 - 2.79 - 3.10 -	0.66 0.70 0.74	.5253 .5611 .5958					321 68 233	UNCH UNCH UNCH
7900 7950 8000			/*3.15A /*3.48A	/*3.15A /*3.48A		3.42 - 3.77 -	0.79	.6299					233 9 12	UNCH UNCH
8050 8100			/3.83A /4.18A	/3.83A /4.18A		4.13 - 4.51 -		.6918 .7196					41 21	UNCH UNCH
TOTAL OCT18											1170	1150	24761 +	1568
5350 5450						0.03 - 0.04	UNCH	.0069 .0091					200 100	UNCH UNCH
5500 5950			/*0.09A /*0.11A	/*0.09A /*0.11A		0.04 - 0.09 -	0.02	.0093					625 9 91	UNCH
6050 6150 6200			/*0.13A /*0.14A	/*0.13A /*0.14A		0.11 - 0.13 - 0.15 -	0.03	.0263 .0313 .0356			200		71 200	UNCH UNCH UNCH
6400 6450			/*0.20A /*0.23A	/*0.20A /*0.23A		0.22 - 0.25 -	0.04	.0521 .0585					150 10	UNCH UNCH
6500 6550			/*0.25A /*0.28A	/*0.25A /*0.28A		0.27 - 0.30 -	0.06	.0634 .0701					400 40	UNCH
6600 6800 6900			/*0.31A /*0.48A /*0.59A	/*0.31A /*0.48A /*0.59A		0.34 - 0.51 - 0.64 -	0.11	.0783 .1144 .1393			100		200 241 - 200	UNCH 9 UNCH
6950 7000			/*0.66A /*0.74A	/*0.66A /*0.74A		0.71 - 0.79 -	0.16 0.17	.1526 .1673					5 550	UNCH UNCH
7250 7300			/*1.24A /*1.37A	/*1.24A /*1.37A		1.32 - 1.46 -		.2563 .2774					22 26	UNCH
7450 7500 7550			/*1.83A /*2.00A /*2.19A	/*1.83A /*2.00A /*2.19A		1.95 - 2.14 - 2.34 -	0.41	.3458 .3700 .3947				150	50 359 + 25	UNCH 140 UNCH
7600 7750			/*2.40A /*3.09A	/*2.40A /*3.09A		2.55 - 3.29	0.47 NEW	.4199 .4969				150	32 150 +	UNCH 150
7850 TOTAL			/*3.62A	/*3.62A		3.84 -	0.62	.5480			300	300	22 3778 +	UNCH 281
NOV18 2900						0.01	UNCH						100	UNCH
3400 3900			 /*0 344	 /*0 244		0.01 0.01	UNCH UNCH	.0000					200 100	UNCH UNCH
				/*0.24A OMPILED FOR THE CON								ACY OR CO	500 NTENT. IT	IS UNCH
ACCEPT	בס חד IH	L USEK UN THE CO	DINDITION IMAL ERI	RORS OR OMISSIONS	GHALL NOT BE MADE aht CME Group In				יט, טא כ	AUSE FUR	ACITUN.			

ORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.

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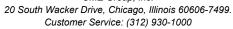




PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	uE.				
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA CIS	GLOBEX® P VOLUME VOLU	NT OPEN ME INTEREST
BZO PU NOV18	Т	BRENT CRUDE C	OIL FUT MARGIN OP	т					
6500 6600			/*0.50A /*0.60A	/*0.50A /*0.60A		0.52 - 0.09 0.62 - 0.12	.0972 .1141		100 UNCH 250 UNCH
6800 7300			/*0.86A /*2.02A	/*0.86A /*2.02A		0.90 - 0.16 2.11 - 0.33	.1577 .3155		100 UNCH 50 UNCH
7700			/*3.63A	/*3.63A		3.80 NEW	.4800		50 150 + 150 50 1550 + 150
TOTAL DEC18								_	1330 1 130
3000 3500						0.01 UNCH 0.01 UNCH	.0000		100 UNCH 250 UNCH
4000 4500						0.01 UNCH 0.02 - 0.01	.0007		3050 UNCH 800 UNCH
4700						0.04 UNCH 0.04 - 0.01	.0070	 	150 UNCH
4800 5000						0.07 UNCH	.0121	 	3075 UNCH
5100 5300						0.08 - 0.01 0.12 - 0.01	.0205	 	700 UNCH
5350 5500			/*0.18A	/*0.18A		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0222	 	200 UNCH 1985 UNCH
5700 5800			/*0.24A /*0.29A	/*0.24A /*0.29A		0.24 - 0.03 0.28 - 0.04	.0400	 	200 UNCH 450 UNCH
5900 5950			/*0.33A /*0.36A	/*0.33A /*0.36A		0.34 - 0.04 0.37 - 0.04	.0554 .0600		700 UNCH 300 UNCH
6000 6050			/*0.39A /*0.43A	/*0.39A /*0.43A		0.40 - 0.04 0.43 - 0.05	.0646 .0692		2300 UNCH 2 UNCH
6100 6150			/*0.46A /*0.50A	/*0.46A /*0.50A		0.47 - 0.05 0.51 - 0.06	.0750 .0809		700 UNCH 1 UNCH
6200 6250			/*0.54A /*0.59A	/*0.54A /*0.59A		0.55 - 0.07 0.60 - 0.07	.0868 .0938		500 UNCH 200 UNCH
6300 6350			/*0.63A /*0.69A	/*0.63A /*0.69A		0.65 - 0.08 0.70 - 0.09	.1008 .1079		100 UNCH 250 UNCH
6400 6500			/*0.74A /*0.87A	/*0.74A /*0.87A		0.76 - 0.10 0.89 - 0.12	.1161 .1334		9 UNCH 2235 UNCH
6600 6650			/*1.01A /*1.09A	/*1.01A /*1.09A		1.04 - 0.14 1.13 - 0.14	.1528		101 UNCH 150 UNCH
6800			/*1.37A /*1.82A	/*1.37A /*1.82A		1.42 - 0.17 1.89 - 0.23	.1984 .2513	 	300 UNCH 3150 UNCH
7000 7200			/*2.40A	/*2.40A		2.48 - 0.30	.3119	 50	23 - 27
7250 7350			/*2.56A /*2.91A	/*2.56A /*2.91A		3.02 - 0.36	.3619	 	31 UNCH 31 UNCH
7400 7500			/*3.10A /*3.51A	/*3.10A /*3.51A		3.22 - 0.38 3.64 - 0.42	.3793 .4146	 	200 UNCH 150 UNCH
7750 TOTAL			/*4.70A	/*4.70A		4.89 - 0.52	.5051	 50	100 UNCH 23058 - 27
JAN19									
6700 TOTAL						1.72 - 0.17	.2066	 	100 UNCH 100
FEB19									
5500 6900						0.42 - 0.01 2.74 - 0.17	.0550 .2771		300 UNCH 100 UNCH
TOTAL									400
MAR19 4800						0.20 - 0.01	.0255	 	200 UNCH
5000 5500						0.29 UNCH 0.63 - 0.03	.0357 .0719		450 UNCH 950 UNCH
5600 6500						0.73 - 0.04 2.24 - 0.18	.0819 .2140		200 UNCH 250 UNCH
6800 7000						3.04 - 0.25 3.68 - 0.29	.2755		100 UNCH 100 UNCH
TOTAL						3.00 0.23	.3214		2250
JUN19 4500						0.35 - 0.01	.0349	 	800 UNCH
5000						0.69 - 0.03 1.29 - 0.06	.0650 .1124	 	1100 UNCH 150 UNCH
5500 6000						2.21 - 0.17	.1777	 	750 UNCH
6500 7500						3.50 - 0.23 7.38 - 0.38	.2602 .4696		300 UNCH
TOTAL DEC19									4150
2500						0.03 UNCH 0.21 UNCH	.0029		300 0
3500 4000						0.47 UNCH	.0379	 	500 UNCH
4500 5000						0.93 - 0.02 1.65 - 0.04	.0690 .1129	 	500 UNCH
5500 6500						2.65 - 0.07 5.56 - 0.11	.1686 .3133		100 UNCH
TOTAL									2900
OS CAL	L	BRENT CRUDE C	OIL OPTIONS						
DEC18 5000						26.58 + 1.35	.9878	 	24 UNCH
TOTAL OS PUT		DDENT COURS	ATI OPTIONS						24
DEC18		BRENT CRUDE C				0.01	0003		24
3800 4800						0.01 UNCH 0.04 - 0.01	.0003	 	24 UNCH 1000 UNCH
6400 TOTAL						0.75 - 0.11	.1152	 	24 UNCH 1048
PC		DDENT FURS CT	VI E ORTTON						
BE CAL SEP18		BRENT EURO ST				11 50 . 1 22	0722		4047
6600 6700						11.52 + 1.28 10.54 + 1.25	.9722 .9647	 	4047 UNCH 2000 UNCH
6850 7300						9.11 + 1.24 5.10 + 1.06	.9447 .8050		1000 UNCH 5500 UNCH
7350 7500						4.71 + 1.03 $3.63 + 0.92$.7787 .6888		1000 UNCH 1500 UNCH
8000 8100						$ \begin{array}{r} 1.23 + 0.50 \\ 0.96 + 0.42 \end{array} $.3384 .2791		2000 UNCH 59 2000 UNCH
8300 8400						$ \begin{array}{r} 0.59 + 0.29 \\ 0.46 + 0.23 \end{array} $.1856 .1494		2000 UNCH 00 1000 - 1000
TOTAL						22.10 . 0.23			59 22047 - 1000
DEC18 6150						15.47 + 1.28	.9200	 	1000 UNCH
6350						13.68 + 1.25 8.41 + 1.11	.8920 .7491	 	1000 UNCH 1000 UNCH 464 UNCH
7000 7100						7.69 + 1.09	.7196	 	1000 UNCH
7150 7300						7.35 + 1.07 6.36 + 1.00	.6555	 	6000 UNCH
7350 7400						6.05 + 0.98 5.75 + 0.97	.6384 .6209	 	5000 UNCH 750 UNCH
7450 7500						5.46 + 0.94 5.18 + 0.93	.6034 .5855	 	1000 UNCH
7900 7950						3.30 + 0.76 3.10 + 0.74	.4404 .4226		1000 UNCH
8000	FORMATIO	 N CONTAINED IN	 THIS REPORT IS CO	OMPILED FOR THE CON	 NVENIENCE OF THE U	2.92 + 0.72 SER AND IS FURNISHED	.4053		48 2198 - 1000
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 ${\it CME\ Group,\ Inc.}$





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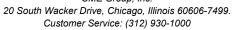
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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT. & PT.			DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		INTE	OPEN REST
BE CALI		BRENT EURO ST		,							VOLUME				
DEC18 8200						2.26		0.62	.3382					1000	UNCH
8250 8400						1.76	+	0.60	.3232					1000 3500	UNCH
8650 9400						0.54	+	0.42	.2169					2000 1000	UNCH
10500 TOTAL						0.19	+	0.08	.0378				1748	653 32678 -	UNCH 1000
MAR19 7150 TOTAL						8.05	+	0.90	.6424					1543 1543	UNCH
JUN19 7000 TOTAL						9.30	+	0.76	.6421					3772 3772	UNCH
DEC19 9000 11000 TOTAL						2.46 0.86	++	0.25 0.13	.2438 .0969					40 125 165	UNCH UNCH
BE PUT		BRENT EURO ST	YLE OPTION												
SEP18 5500						0.01		UNCH	.0006					3000	UNCH
6000 6200						0.03	-	0.01	.0064					3000 3000	UNCH
6350 6600						0.08	-	0.02 0.04 0.12	.0137 .0277 .0845					500 500 1495	UNCH UNCH UNCH
7000 TOTAL						0.23	_	0.12	.0043					11495	UNCH
NOV18 6650 TOTAL						0.68	-	0.12	.1239					500 500	UNCH
DEC18 3900						0.01		UNCH	.0004					1000	UNCH
4250 4500						0.01 0.02	_	$0.01 \\ 0.01$.0019 .0037					500 1000	UNCH UNCH
5000 5850							-	UNCH 0.03	.0121					908 2000	UNCH UNCH
6200 6250						0.59	-	0.06 0.08	.0868					2000 1000	UNCH
6350 6500						0.88	-	0.09 0.12	.1079 .1326					1500 320	UNCH
6700 6750						1.31	-	0.16	.1741					3000 1000	UNCH
6900 7000								0.20 0.23	.2233 .2508				3000	2500 7000 +	UNCH 3000 3000
TOTAL FEB19 5000						0.19		UNCH	.0262				3000	23728 + 795	UNCH
TOTAL MAR19														795	
7000 TOTAL						3.64		NEW					1000 1000	1000 + 1000 +	1000 1000
WCI CAI	_L	CANADIAN HEAV	V CRIDE OTI ADO	١											
AUG18			T CRODE OIL AFO	,											
AUG18 -13500 -13000 TOTAL				, 		0.001 0.001		UNCH UNCH	.0011					210 290 500	UNCH UNCH
AUG18 -13500 -13000					===== =====						====	====		290	
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C	====					0.001		UNCH	.0005		====	====		290 500 210 290 500	UNCH
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C	====	====	====	====		0.001 0.001 0.001 0.001		UNCH UNCH UNCH UNCH	.0005 .0008 .0005					290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH
AUG18 -1350C TOTAL SEP18 -1350C TOTAL OCT18 -1350C TOTAL NOV18 -1350C TOTAL NOV18 -1350C TOTAL		====	====	====		0.001 0.001 0.001		UNCH UNCH UNCH UNCH	.0005					290 500 210 290 500	UNCH UNCH UNCH UNCH
AUG18 -1350C TOTAL SEP18 -1350C TOTAL OCT18 -1350C TOTAL NOV18 -1350C TOTAL DEC18 -1350C TOTAL	===== ===== =====	====	====	==== ===== =====	=====	0.001 0.001 0.001 0.001 0.001		UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006				====	290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH
AUG18 -1350C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C TOTAL NOV18 -1350C -1300C TOTAL DEC18 -1350C -1300C TOTAL WCI PU					=====	0.001 0.001 0.001 0.001 0.001 0.001 0.001		UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006		====		====	290 500 210 290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350C TOTAL SEP18 -1350C TOTAL OCT18 -1350C -1300C TOTAL NOV18 -1350C -1300C TOTAL DEC18 -1350C -1300C TOTAL WCI PU AUG18 -1550C TOTAL					=====	0.001 0.001 0.001 0.001 0.001 0.001 0.001		UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006		====		====	290 500 210 290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C TOTAL MOV18 -1350C -1300C TOTAL DEC18 -1350C TOTAL WCI PU AUG18 -1550C TOTAL SEP18 -1550C TOTAL		CANADIAN HEAV	 Y CRUDE OIL APO		===== ===== =====	0.001 0.001 0.001 0.001 0.001 0.001 0.001	+ 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006	====	====		=====	290 500 210 290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(TOTAL SEP18 -1350(TOTAL OCT18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL DEC18 -1350(-1300(TOTAL DEC18 -1350(TOTAL SEP18 -1550(TOTAL OCT18		CANADIAN HEAV	Y CRUDE OIL APO		===== ===== =====	0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	+ 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006	====	===== ===== =====	====	====	290 500 210 290 500 210 290 500 210 290 500 210 290 500	UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL WCI PU AUG18 -1550(TOTAL SEP18 -1550(TOTAL SEP18 -1550(TOTAL NOV18		CANADIAN HEAV	Y CRUDE OIL APO			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	+ 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006	===== ===== =====	===== ===== =====	====		290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL DEC18 -1350(-1300(TOTAL DEC18 -1350(TOTAL EP18 -1550(TOTAL OCT18 -1550(TOTAL OCT18 -1550(TOTAL NOV18 -1550(CANADIAN HEAV	Y CRUDE OIL APO			0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716	+ 0 + 1	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006	 	 	 		290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C TOTAL DEC18 -1350C TOTAL DEC18 -1350C TOTAL DEC18 -1350C TOTAL SEP18 -1550C TOTAL OCT18 -1550C TOTAL OCT18 -1550C TOTAL NOV18 -1550C TOTAL CC18 -1550C TOTAL CC28 -1550C TOTAL CC30C TOTAL		CANADIAN HEAV	Y CRUDE OIL APO			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716 7.951	+ 0 + 1	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006 .9861 .9950 .9927		 	 		290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL DEC18 -1350(TOTAL OCT18 -1550(TOTAL OCT18 -1550(TOTAL NOV18 -1550(TOTAL OCT18 -1550(TOTAL DEC18 -1550(TOTAL OCT18 -1550(TOTAL DEC18 -1550(TOTAL OCT18 -1550(TOTAL DEC18 -1550(TOTAL DEC1		CANADIAN HEAV	Y CRUDE OIL APO OL 3 MTH CAL SP			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7.716 7.951 8.184	+ 0 + 1 + 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930 .9934					290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL WCI PU AUG18 -1550(TOTAL SEP18 -1550(TOTAL OCT18 -1550(TOTAL NOV18 -1550(TOTAL NOV18 -1550(TOTAL CT18 -1550(TO		CHICAGO ETHAN	Y CRUDE OIL APO			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 7.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001	+ 0 + 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930					290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL DEC18 -1350(-1300(TOTAL DEC18 -1350(TOTAL DEC18 -1350(TOTAL OCT18 -1350(TOTAL OCT18 -1550(TOTAL OCT18 -1550(TOTAL DEC18 -1550(TOTAL DC18 -155		CANADIAN HEAV	OL 3 MTH CAL SP	PD OPT		0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716 7.951 8.184	+ 0 + 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930 .9934					290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170 170 170 170 1	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C TOTAL DEC18 -1350C -1300C TOTAL DEC18 -1350C TOTAL DEC18 -1350C TOTAL WCI PU AUG18 -1550C TOTAL OCT18 -1550C TOTAL DEC18 -1550C TOTAL OCT18 -1550C TOTAL CE3 00C SEP18 200 300 TOTAL CC4 CAI JUN188 CVR CAI JUN188 L4500		CANADIAN HEAV	Y CRUDE OIL APO OL 3 MTH CAL SP	PD OPT		0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716 7.951 8.184 0.0167 0.0120 0.0080	+ 0 + 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930 .9934					290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170 170 170 170 1	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350C -1300C TOTAL SEP18 -1350C -1300C TOTAL OCT18 -1350C -1300C TOTAL DEC18 -1350C -1300C TOTAL DEC18 -1350C TOTAL DEC18 -1350C TOTAL OCT18 -1550C TOTAL OCT18 -1550C TOTAL OCT18 -1550C TOTAL CC18 -1550C TOTAL CC3 CC3 CC3 CC3 CC3 CC3 CC3 CC3 CC3 CC		CHICAGO ETHAN	CRUDE OIL APO			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716 7.951 8.184 0.0167 0.0120 0.0080	+ 0 + 1 + 0 + 0.	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930 .9934					290	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
AUG18 -1350(-1300(TOTAL SEP18 -1350(-1300(TOTAL OCT18 -1350(-1300(TOTAL NOV18 -1350(-1300(TOTAL CE3 -1350(-1300(TOTAL DEC18 -1350(TOTAL SEP18 -1550(TOTAL SEP18 -1550(TOTAL NOV18 -1550(TOTAL OCT18 -1550(TOTAL OCT18 -1550(TOTAL CE3 000 TOTAL DEC18 -1550(TOTAL CE3 000 TOTAL DEC18 -1550(TOTAL DEC18 -15		CHICAGO ETHAN	CL 3 MTH CAL SP			0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 5.195 9.374 7.716 7.951 8.184 0.0167 0.0120 0.0080	+ 0 + 1 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0005 .0008 .0005 .0010 .0006 .0010 .0006 .0010 .0006 .9861 .9950 .9927 .9930 .9934					290 500 210 290 500 210 290 500 210 290 500 210 290 500 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170 170	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH

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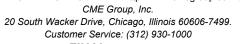
Side 10

FINAL

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	GLOBEX	OPEN OUTCRY	GLOBEX	OPEN OUTCRY	OPEN OUTCRY	SETT.PRICE		EXER	OPEN	GLOBEX®	PNT		OPEN
CVR CAI	OPEN LL	OPEN RANGE CHICAGO ETHAN	HIGH/LOW OL(PLATTS) APO	HIGH/LOW	CLOSE RANGE	& PT.CHGE.	DELTA	CISES	OUTCRY VOLUME	VOLUME '	VOLUME	INTE	REST
TOTAL JUL18												3469	
14500						0.0140 + 0.0033	.3306				150	500	UNCH
15000 15500						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.1347 .0400				150 	507 - 415	30 UNCH
16000 16500						0.0003 + 0.0002 0.0001 UNCH	.0109 .0036					800 135	UNCH
17000						0.0001 UNCH	.0006				150	25 2382 -	UNCH 30
TOTAL AUG18											130	2302	30
14000						0.0598 + 0.0099	.6368				124	179 +	54
14500 15000						0.0348 + 0.0048 0.0187 + 0.0015	.4497 .2840					115 407	UNCH
15500 16000						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.1620 .0841					335 290	UNCH
16500 17000						0.0019 + 0.0002 0.0008 + 0.0002	.0408 .0186					410 200	UNCH UNCH
TOTAL						0.0000 + 0.0002	.0100				124	1936 +	54
SEP18						0.0305 + 0.0039	.3531					100	UNCH
15000 15500						0.0175 + 0.0025	.2324					760	UNCH
16000 16500						$0.0094 + 0.0015 \\ 0.0054 + 0.0013$.1413 .0867					115 110	UNCH UNCH
17000 TOTAL						0.0031 + 0.0010	.0524					25 1110	UNCH
OCT18													
15000 15500						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.3630 .2530					25 120	UNCH UNCH
16000 16500						0.0131 + 0.0015 0.0078 + 0.0010	.1692 .1091					5 150	UNCH UNCH
TOTAL						0.0070 1 0.0010	.1031					300	onen
NOV18						0.0370 + 0.0026	.3570					15	UNCH
15000 15500						0.0241 + 0.0017	.2578					120	UNCH
16000 16500						$ \begin{array}{r} 0.0155 + 0.0010 \\ 0.0098 + 0.0007 \end{array} $.1804 .1227					5 150	UNCH UNCH
TOTAL												290	
DEC18 15000						0.0399 + 0.0018	.3537					15	UNCH
15500 16000						0.0268 + 0.0009 0.0182 + 0.0008	.2625 .1917					45 5	UNCH
16500						0.0121 + 0.0006	.1363					60 125	UNCH
TOTAL CVR PU	-	CUTCACO ETUAN	OL(PLATTS) APO									123	
JUN18						0.0001						15	
13000 13500						0.0001 UNCH 0.0001 UNCH						15 150	UNCH
14000 14500						0.0001 UNCH 0.0426 UNCH	.0391 .9906					270 880	UNCH UNCH
15000						0.0926 UNCH	1.0000					250 1565	UNCH
TOTAL JUL18													
13500 14000						0.0043 - 0.0037 0.0164 - 0.0076	.1265 .3655				 25	450 485 +	UNCH 25
14500						0.0439 - 0.0167	.6693					265	UNCH
15000 TOTAL						0.0847 - 0.0183	.8653				25	125 1325 +	UNCH 25
AUG18						0.0127 0.0020	2010					10	
13500 14000						0.0127 - 0.0030 0.0274 - 0.0051	.2019 .3631				124	10 219 +	UNCH 89
14500 TOTAL						0.0522 - 0.0102	.5503				124	125 354 +	UNCH 89
SEP18													
13500 14000						0.0181 - 0.0032 0.0340 - 0.0050	.2226 .3555					10 40	UNCH
14500 15000						0.0573 - 0.0068 0.0877 - 0.0085	.5040					50 10	UNCH
TOTAL						0.0077 0.0003	.0100					110	Onch
OCT18 13000						0.0143 - 0.0003	.1615					25	UNCH
13500						0.0259 - 0.0015	.2581				10	250 50	UNCH
14000 14500						0.0417 - 0.0046 0.0643 - 0.0074	.3740 .5065					20	UNCH UNCH
15000 TOTAL						0.0942 - 0.0094	.6369				10	50 395	UNCH
NOV18													
13000 13500						0.0205 + 0.0007 0.0344 UNCH	.1986 .2952				10	25 150	UNCH UNCH
14000 14500						0.0521 - 0.0027 0.0754 - 0.0059	.4051 .5266					50 20	UNCH
15000						0.1064 - 0.0073	.6429				 10	15 260	UNCH
TOTAL DEC18											10	200	
13000						$0.0281 + 0.0018 \\ 0.0439 + 0.0012$.2342				 10	25 200	UNCH UNCH
13500 14000						0.0638 - 0.0007	.4309					50	UNCH
14500 15000						0.0886 - 0.0033 0.1191 - 0.0056	.5405 .6462					20 15	UNCH UNCH
TOTAL											10	310	
CQA CAI	LL	COAL API2 ARG	US/MCCLOS QRTR	OPT									
ост18 8600						9.49 + 0.97	.8403					100	UNCH
9000 9100						6.52 + 0.81 5.87 + 0.76	.7072 .6687					50 40	UNCH UNCH
9500 10000						3.66 + 0.53 1.89 + 0.31	.5046 .3135					100 300	UNCH
TOTAL						1.05 1 0.51	.5155					590	Onch
JAN19						4.34 + 0.77	.4399					575	HNCH
9500 10000						4.34 + 0.77 2.84 + 0.59	.3208					150	UNCH UNCH
TOTAL	-	COM 12-2 :	us /wss: 22	ODT								725	
CQA PUTOCT18			US/MCCLOS QRTR				_						
8450 TOTAL						0.64 - 0.19	.1240					20 20	UNCH
TOTAL JAN19													
8000 TOTAL						1.51 - 0.10	.1761					175 175	UNCH
IUIAL												-	

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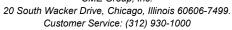




Side 11

R= REC	RADE DUF	TOR KEY LUME OR OPEN RING THE RTH	INTEREST, B= BID), A=ASK, P= P SETTER BID OR	OST SETTLEMENT S BETTER OFFER OCC	SESSION,N=	NO	MINAL	CLOSE,						
•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
CLA CAI JAN19	LL	COAL API2 ARG	GUS/MCCLOS CALNDR O	PT											
7900 8000						10.62	+	1.18	.7767 .7533					50 145	UNCH
8300 8400 8500					 	8.64 8.04 7.46	++++	1.02 0.99 0.94	.6797 .6528 .6252					25 25 55	UNCH UNCH UNCH
8600 9000						6.91 5.01	++	0.90	.5979					50 100	UNCH
9200 9500						4.24 3.27	+	0.62 0.51	.4341 .3597					50 300	UNCH UNCH
10000 12000						2.07 0.26 0.10	+ +	0.35 0.05 0.01	.2536 .0439 .0160					125 125 365	UNCH UNCH UNCH
14000 TOTAL CLA PU			GUS/MCCLOS CALNDR O			0.10	_	0.01	.0100					1415	ONCH
JAN19 5500						0.04		NEW					5	5 +	5
6000 6500						0.11 0.27	-	0.02	.0167				10	190 310 +	UNCH 10
6700 7000 7500						0.38 0.61 1.23	-	0.07 0.11 0.22	.0521 .0794 .1463				 5	50 235 205 +	UNCH UNCH 5
7800 7800 7900						1.80	-	0.34	.2014					50 50	UNCH
8000 8200						2.34	-	0.41	.2466					275 100	UNCH
8500 TOTAL						4.13	-	0.62	.3747				20	50 1520 +	UNCH 20
MTO CA	ALL	COAL API2 CIF	- ARA ARGSMCCLOSKE	Y OP		50.99		IINGII	.9967					20	IINGII
4500 5600 8400 TOTAL			====				+	UNCH 0.01 UNCH	.9758 .7258					20 5 30 55	UNCH UNCH UNCH
JUL18 4500 5600						51.77 40.79	++	1.25 1.25	.9980 .9955					20 5 25	UNCH UNCH
TOTAL AUG18 4500						51.17 40.21		1.19 1.20	.9977 .9940					20	UNCH UNCH
5600 TOTAL SEP18														25	
4500 5600 TOTAL						50.50 39.55	+	0.90 0.89	.9975 .9929					20 5 25	UNCH
OCT18 4500 5600 TOTAL			====			49.97 39.04	++	1.10 1.09	.9944 .9674					20 5 25	UNCH UNCH
NOV18 4500 5600 TOTAL						49.42 38.52		1.24 1.25	.9943 .9667					20 5 25	UNCH UNCH
DEC18 4500 5600 TOTAL						48.25 37.36	++	1.29 1.29	.9940 .9651					20 5 25	UNCH UNCH
MTO PI	UT	COAL API2 CIF	ARA ARGSMCCLOSKE	Y OP											
3800 TOTAL						0.01		UNCH	.0005					20 20	UNCH
JUL18 3800 TOTAL						0.01		UNCH	.0009					20 20	UNCH
AUG18 3800 TOTAL						0.01		UNCH	.0010					20 20	UNCH
SEP18 3800 TOTAL						0.01		UNCH	.0010					20 20	UNCH
OCT18 3800 TOTAL						0.01		UNCH	.0010					20 20	UNCH
NOV18 3800 TOTAL						0.01		UNCH	.0010					20 20	UNCH
DEC18 3800 TOTAL						0.01		UNCH	.0011					20 20	UNCH
MFO CA	ALL	COAL API4 FOE	RCHRDS BAY ARGS M	CCLO											
JUN18 9200						12.30		UNCH	1.0000					50 50	UNCH
9400 10350 10550						10.30 0.80 0.01		UNCH UNCH UNCH	1.0000 .7697 .0271					50 50 50 200	UNCH UNCH UNCH
TOTAL JUL18 8550 TOTAL						18.62	+	1.35	.9912					25 25	UNCH
AUG18 8550 TOTAL						18.29	+	1.34	.9906					25 25	UNCH
SEP18 8550 TOTAL						17.92	+	1.51	.9849					25 25	UNCH
OCT18 8500 8550 TOTAL						17.73 17.25	++	1.29 1.28	.9901 .9849					25 25 50	UNCH UNCH
NOV18 8500 8550			====		====	17.16 16.70	++	1.11 1.10	.9641 .9570					25 25	UNCH

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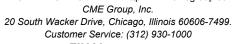




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	LOBEX OPEN	OPEN OUTO		OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.P & PT.C		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX [©] VOLUME	INT	OPEN EREST
FO CA	LL	COAL API4	FOB RCHRDS BAY AI	RGS MCCLO						VOLUME		50	
EC18 500 550						16.35 + 15.91 +	1.16					 25 25	UNCH
OTAL FO PU	т	COAL API4	FOB RCHRDS BAY A	RGS MCCLO								50	
UN18 500						0.01	UNCH					 100	UNCH
750 800						0.01 0.01	UNCH					 100 50	UNCH
400 950 OTAL			====			0.01 0.01	UNCH					 200 50 500	UNCH
UL18 300 OTAL						0.01	UNCH	.0031				 25 25	UNCH
UG18 300 OTAL						0.01	UNCH	.0034				 25 25	UNC
EP18 300 OTAL						0.02 -	0.02	.0062				 25 25	UNC
CT18 300 OTAL						0.08 -	0.03	.0190				 50 50	UNC
0V18 300 OTAL						0.19 -	0.05	.0368				 50 50	UNC
EC18 300 OTAL						0.37 -	0.10	.0605				 50 50	UNCH
LA PUT		COAL API4	F BAY ARGUS/MCK (CAL									
AN19 000 OTAL						3.31 +	0.33	.3383				 25 25	UNCH
O CALL UN18		CRUDE OIL	. APO OPTIONS										
500 600						22.23 + 21.23 +		1.0000				 100 9	UNCI
900 950						18.23 + 17.73 +	0.31	1.0000				 20 50	UNC
000 100						17.23 + 16.23 +	0.31	1.0000				 438 190	UNC
125 135						15.98 + 15.88 +	0.31	1.0000				 5 120	UNC
200 225						15.23 + 14.98 +	0.31	1.0000				 495	UNC
250 275						14.73 + 14.48 +	0.31	1.0000					UNC
300						14.23 + 13.98 +	0.31	1.0000				 8 2 2 2	UNC
325 350						13.73 + 13.23 +	0.31					 7 30	UNC
400 430						12.93 +	0.31	1.0000				 41	UNC
450 475						12.73 + 12.48 +	0.31	1.0000				 15 1	UNC
500 520						12.23 + 12.03 +	0.31	1.0000				 3387 60	UNC
550 575						11.73 + 11.48 +	0.31	1.0000				 126 19	UNC
580 600						11.43 + 11.23 +						 5 56	UNC
625 650						10.98 + 10.73 +						 2 98	UNC
700 750						10.23 + 9.73 +	0.31	1.0000				 250 45	UNC
800 850						9.23 + 8.73 +	0.31	1.0000				 259	UNC
900 925						8.23 + 7.98 +	0.31	1.0000				 2 4	UNC
000						7.23 + 6.73 +	0.31	1.0000				 4636 45	UNC
050 L00						6.23 +	0.31	1.0000				 42 32	UNC
150 200						5.23 +	0.31	1.0000				 73	UNC
250 275						4.73 + 4.48 +	0.31	1.0000				 55 4 <u>1</u>	UNC
400 450						3.23 + 2.73 +	0.31	1.0000				 3 46	UNC
500 550						2.23 + 1.73 +	0.31	1.0000				 1082 60	UNC
600 650						1.23 + 0.73 +	0.31	1.0000				 1 1	UNC UNC
700 830						0.23 + 0.01	0.20 UNCH					 1 14	UNC UNC
350 900						$0.01 \\ 0.01$	UNCH					 6 1	UNC
950 000						0.01 0.01	UNCH					 1 251	UNC
080 175						0.01 0.01	UNCH					 22 1	UNC
200 250						0.01 0.01 0.01	UNCH					 175 17	UNC
300						0.01	UNCH					 300	UNC
500 750						0.01 0.01	UNCH					 1035 36	UNC
800 000						0.01 0.01	UNCH					 1200 2000	UNC
500 000						0.01 0.01	UNCH					 500 650	UNC
0000 1000 OTAL						0.01 0.01	UNCH					 36 50 18275	UNC
UL18 000						52.18 +						 200	UNC
500 600						27.22 + 26.22 +	2.15	1.0000				 100 7	UNC
850 000						23.73 + 22.23 +	2.15	1.0000				 20 1075	UNC
						21.23 +	2.15	1.0000				 100	UNC
100 125						20.98 +	2.14	1.0000				 5	UNC





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THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'	S SETTLEMENT PRI	CCE.									
,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN EREST
AO CALI	L	CRUDE OIL APO	OPTIONS											
5225 5250						19.73 +	2.14 2.14	1.0000 1.0000					5 2	UNCH UNCH
5300 5325						18.99 +	2.15 2.15	1.0000 1.0000					120 6	UNCH UNCH
5350 5400						18.24 +	2.15	1.0000					5 75	UNCH
5430 5450						17.74 + 3	2.15	1.0000					41 13	UNCH
5475 5500						17.24 +	2.15	1.0000 1.0000 1.0000					4190 31	UNCH
5520 5550 5575						16.74 +	2.15 2.15 2.15	1.0000					81 19	UNCH UNCH UNCH
5580 5600						16.44 +	2.15	1.0000					5 204	UNCH
5625 5650						15.99 +	2.15	1.0000 1.0000					2 52	UNCH UNCH
5700 5750						14.74 +	2.14 2.14	1.0000					252 95	UNCH UNCH
5800 5850						13.75 +	2.14	.9999					208 11	UNCH
5900 6000						12.25 +	2.15	.9999 .9997 .9993					45 3891 45	UNCH
6100 6150 6152						10.75 +	2.15 2.14 2.14	.9989					31 15	UNCH UNCH UNCH
6200 6275						10.25 +	2.13	.9981					270 41	UNCH
6300 6350						9.25 +	2.11	.9954					45 45	UNCH
6400 6500						8.27 +	2.11	.9872 .9804					171 1360	UNCH UNCH
6550 6600						6.30 +	2.04	.9742 .9677					60 1	UNCH UNCH
6650 6700						5.35 +	1.96 1.91	.9562					1 103	UNCH
6830 6850						4.00 +	1.71	.8812					12 6	UNCH
6900 6950 7000						3.18 +	1.58 1.49 1.39	.8368 .7971 .7511					1 1 714	UNCH UNCH UNCH
7000 7080 7120						2.25 +	1.19 1.10	.6722					22 13	UNCH
7175 7200						1.69 +	0.97	.5673					1 100	UNCH
7250 7300						1.32 + (1.10 +	0.81 0.69	.4828 .4272					17 4	UNCH UNCH
7380 7500						0.51 + (0.55	.3440					113 665	UNCH
7750 8000						0.06 +	0.14	.0969					40 1844	UNCH
8200 8500						0.01	0.02 UNCH UNCH	.0178 .0060 .0003					725 500 650	UNCH UNCH UNCH
9000 10000 11000						0.01	UNCH						36 46	UNCH
TOTAL						0.01	ONCH						19106	orteri
AUG18 4500							1.91	.9999					100	UNCH
4600 4850						22.24 +	1.91 1.91 1.92	.9999 .9998 .9996					7 20 1075	UNCH
5000 5100 5125						19.75 +	1.92 1.91 1.91	.9993					100	UNCH UNCH UNCH
5160 5200						19.15 +	1.91 1.92	.9990					50 495	UNCH
5225 5250						18.51 +	1.92 1.92	.9985					5 2	UNCH
5300 5325						17.51 +	1.91 1.90	.9977 .9973					120 6	UNCH UNCH
5350 5400						16.76 +	1.90	.9969					5 75	UNCH
5430 5450						16.27 +	1.90 1.90 1.90	.9929 .9928 .9927					41 13	UNCH UNCH UNCH
5475 5500 5520						15.78 +	1.91 1.91	.9926					4189 31	UNCH
5550 5575						15.28 +	1.90	.9923					81 19	UNCH
5580 5600						14.79 +	1.91 1.90	.9893 .9891					5 204	UNCH UNCH
5625 5650						14.29 +	1.89	.9889					2 52	UNCH
5700 5750						13.31 +	1.89	.9855 .9823 .9790					252 95 208	UNCH
5800 5850 5950						12.33 +	1.89 1.88 1.86	.9782					11 45	UNCH UNCH UNCH
6000 6100						10.88 +	1.85 1.83	.9623					3891 45	UNCH
6150 6152						9.45 + 9.43 +	1.81 1.81	.9429 .9428					31 19	UNCH UNCH
6200 6275						8.98 + 8.29 +	1.78 1.75	.9338 .9167					270 41	UNCH UNCH
6350 6400						7.18 +	1.71	.8953 .8814					94 175	UNCH
6500 6550						5.91 +	1.61 1.56	.8446 .8250					1860 60 1	UNCH
6600 6650 6700						5.14 +	1.52 1.49 1.44	.8025 .7774 .7522					1 1 303	UNCH UNCH UNCH
6830 6850						3.86 +	1.29	.6778 .6657					10 6	UNCH
6900 6950						3.41 + 3.13 +	1.21	.6349 .6027					1 1	UNCH
7000 7080						2.85 + 2.44 +	$\frac{1.10}{1.01}$.5703 .5177					82 <u>1</u> 22	UNCH UNCH
7120 7175						2.01 +	0.96	.4914					3 1	UNCH
7200 7250						1.71 +	0.86	.4393					100 17	UNCH
7300 7350 7500						1.37 +	0.74 0.69 0.53	.3770 .3476 .2659					4 141 669	UNCH UNCH UNCH
7500 7750 8000						0.52 +	0.33 0.32 0.18	.1616					41 1849	UNCH UNCH
8200 8500						0.17 +	0.11 0.06	.0605					725 500	UNCH
9000 10000						0.03 + 0 0.01	0.02 UNCH	.0115					650 36	UNCH UNCH
11000 TOTAL							UNCH	.0000					43 19747	UNCH
SEP18 4500						24.62 +	1.75	.9991					100	UNCH
4600						23.62 +	1.73	.9985					7	UNCH
				COMPILED FOR THE CO RRORS OR OMISSIONS								ICY UR CO	NIENI. IT	15

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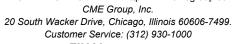


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Side 14

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EX DELTA CI	XER OPEN ISES OUTC VOLUI	® PNT VOLUME	INTE	OPEN REST
AO CAL SEP18	.L	CRUDE OIL APO	OPTIONS								
4850 5000						21.14 + 1.73 19.66 + 1.73				20 1075	UNCH UNCH
5100 5125						18.68 + 1.74 18.43 + 1.72	.9890 -			100	UNCH
5160 5200						18.09 + 1.73 17.69 + 1.72	.9865 -			50 495	UNCH
5225						17.44 + 1.72 17.20 + 1.72	.9861 -		 	5 2	UNCH
5250 5300						16.72 + 1.73	.9813 -		 	120	UNCH
5325 5350						16.47 + 1.71 16.22 + 1.71	.9807 -		 	6 5	UNCH
5400 5430						15.74 + 1.71 15.44 + 1.70	.9757 -		 	75 41	UNCH
5450 5475						15.25 + 1.71 15.01 + 1.71	.9731 -		 	13	UNCH
5500 5520						14.77 + 1.71 $14.58 + 1.70$.9685 -		 	4189 30	UNCH
5550 5575						14.29 + 1.70 14.05 + 1.70	.9637 -		 	81 19	UNCH UNCH
5580 5600						14.00 + 1.69 $13.80 + 1.68$.9632 -			5 204	UNCH UNCH
5625 5650						13.56 + 1.68 $13.33 + 1.69$.9566 -		 	2 52	UNCH UNCH
5700 5750						12.86 + 1.68 12.38 + 1.66	.9466 -			252 95	UNCH UNCH
5800 5850						11.91 + 1.65 $11.44 + 1.63$				208 11	UNCH UNCH
6000 6100						10.08 + 1.59 9.20 + 1.56				3883 90	UNCH UNCH
6150 6152						8.77 + 1.54 8.75 + 1.53	.0050			30 30	UNCH UNCH
6200 6275						8.35 + 1.52 7.73 + 1.49	.8543 -			280 41	UNCH UNCH
6350 6400						7.13 + 1.44 6.74 + 1.41	.8062 -			60 186	UNCH
6500 6550						6.00 + 1.36 5.64 + 1.32	.7484 -		 	1382 60	UNCH
6600 6650						5.29 + 1.29 4.95 + 1.25	.7054 -		 	1 1	UNCH
6700 6830						4.64 + 1.22 3.85 + 1.11	.6591 -			103 8	UNCH
6850 6900						3.74 + 1.10 $3.47 + 1.06$.5851 -		 	6 1	UNCH
6950 7000						3.21 + 1.02 2.97 + 0.98	.5339 -		 	1 736	UNCH
7080						2.60 + 0.90	.4669 -		 	22 3	UNCH
7120 7175						2.22 + 0.82	.4192 -		 	1	UNCH
7200 7250						1.94 + 0.75	.3822 -		 	100 17	UNCH
7290 7300						1.81 + 0.72 1.77 + 0.71	.3583 -		 	142 4	UNCH
7500 7750						$ \begin{array}{r} 1.22 + 0.55 \\ 0.75 + 0.38 \end{array} $.1844 -		 	765 39	UNCH
8000 8200						0.46 + 0.25 $0.32 + 0.18$.0884 -		 	1805 725	UNCH
8500 9000						$ \begin{array}{r} 0.19 + 0.11 \\ 0.08 + 0.05 \end{array} $.0244 -		 	500 650	UNCH
10000 11000						0.02 + 0.01 0.01 UNCH				36 40	UNCH UNCH
TOTAL										19018	
OCT18 4500						23.90 + 1.55				100	UNCH
4600 4850						22.91 + 1.55 20.46 + 1.55	.9845 -		 	7 20	UNCH
5000 5100						18.99 + 1.54 18.03 + 1.54	.9740 -		 	1000 25	UNCH
5125 5155						17.78 + 1.53 17.49 + 1.53	.9716 -		 	5 55	UNCH
5200 5225						17.05 + 1.53 16.82 + 1.53	.9674 -		 	495 4	UNCH
5250 5300						16.58 + 1.53 16.10 + 1.52	.9615 -		 	120	UNCH
5325 5350						15.86 + 1.52 15.62 + 1.52	.9575 -		 	4	UNCH
5400 5430						15.15 + 1.51 14.86 + 1.50	.9511 -		 	75 41	UNCH
5450 5475						14.67 + 1.50 14.44 + 1.50	.9456 -		 	13 1	UNCH
5500 5520						14.20 + 1.49 14.02 + 1.49	.9414 -		 	3901 31	UNCH
5550 5575						13.74 + 1.48 $13.51 + 1.48$.9341 -		 	81 21	UNCH
5580 5600						13.46 + 1.48 $13.28 + 1.48$.9305 -		 	5 202	UNCH UNCH
5625 5650						13.05 + 1.48 12.82 + 1.47	.9233 -		 	2 52	UNCH
5700 5750						12.37 + 1.46 11.92 + 1.45	.9073 -		 	252 94	UNCH
5800 5850						11.47 + 1.43 $11.04 + 1.42$.8885 -		 	185 9	UNCH
6000 6100						9.75 + 1.37 8.94 + 1.35	.8288 -		 	3931 85	UNCH
6150 6152						8.53 + 1.32 8.52 + 1.33	.8141 -		 	31 34	UNCH
6200 6275						8.14 + 1.31 7.57 + 1.27	.7762 -		 	184 41	UNCH
6300 6400						7.38 + 1.26 6.66 + 1.22	.7680 - .7330 -		 	100 115	UNCH UNCH
6500 6550						5.97 + 1.18 5.65 + 1.15	.6758 -		 	1540 60	UNCH UNCH
6600 6650						5.33 + 1.13 5.01 + 1.09	.6557 - .6353 -		 	1 1	UNCH UNCH
6700 6800						4.72 + 1.07 4.15 + 1.00	.6143 - .5713 -			3 7	UNCH
6830 6850						4.00 + 0.99 3.89 + 0.97	.5582 -			, 7 6	UNCH
6900 6950						3.63 + 0.93 3.39 + 0.90	.5274 -			1 1	UNCH
7000 7035						3.16 + 0.87 3.01 + 0.85	.4832 -		 	859 2	UNCH
7080 7175						2.82 + 0.82 2.45 + 0.76	.4483 -		 	22 1	UNCH
7175 7220 7250						2.28 + 0.72 2.18 + 0.70	.3884 -		 	153 17	UNCH
7500 7500 7750						1.45 + 0.53 0.95 + 0.39	.2799 -		 	585 43	UNCH
8000						0.62 + 0.28 0.33 + 0.16	.1416 -		 	125 725	UNCH
8400 8500						0.33 + 0.16 $0.28 + 0.14$ $0.14 + 0.07$.0702 -		 100	700 1975 +	UNCH 100
9000 10000						0.14 + 0.07 0.04 + 0.02 0.01 UNCH	.0110 -		 	36 38	UNCH UNCH
11000 TOTAL						U.UI UNCH	.0029 -		 100	18235 +	100
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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	INTE	OPEN EREST
AO CAL NOV18	.L	CRUDE OIL APO	OPTIONS						VOLUME			
4500 4600						23.27 + 1.37 22.29 + 1.36					 100 7	UNC
4850 5000						19.86 + 1.34 18.42 + 1.34	.9646				 20 1000	UNC
5100 5125						17.48 + 1.34 17.24 + 1.33	.9564				 25 5	UNC
5145 5200						17.05 + 1.32 16.54 + 1.32 16.30 + 1.32	.9529 .9479 .9461				 60 495 4	UNCI UNCI UNCI
5225 5250 5300						16.07 + 1.32 15.61 + 1.31	.9430				 2 120	UNC
5325 5350						15.38 + 1.31 15.15 + 1.31	.9350				 4 4	UNC
5400 5430						14.70 + 1.30 14.42 + 1.29	.9256				 75 41	UNC
5450 5475						14.24 + 1.29 14.01 + 1.29	.9193 .9161				 13 1	UNC
5500 5520						13.79 + 1.28 13.62 + 1.28	.9089				 3901 30	UNC
5550 5575						13.35 + 1.28 13.13 + 1.27	.9001				 81 21	UNC
5580 5600 5625						13.08 + 1.27 12.91 + 1.27 12.70 + 1.27	.8998 .8958 .8915				 202 2	UNCI UNCI UNCI
5650 5700						12.48 + 1.26 12.05 + 1.25	.8872				 52 252	UNC
5750 5800						11.63 + 1.24 11.20 + 1.22					 94 185	UNC
5850 6000						10.79 + 1.21 9.59 + 1.17	.8466 .8108				 9 3923	UNC
6100 6150						8.82 + 1.14 8.45 + 1.13	.7842 .7695				 40 30	UNC
6152 6200						8.43 + 1.13 8.08 + 1.11	.7692 .7548				 45 240	UNC
6275 6300						7.55 + 1.10 7.37 + 1.08	.7239				 41 100 126	UNC
6400 6500						6.69 + 1.05 6.05 + 1.02 5.75 + 1.00	.6566				 126 1495 60	UNCI UNCI UNCI
6550 6600 6650						5.75 + 1.00 5.45 + 0.99 5.15 + 0.95	.6205				 46 1	UNCI
6700 6800						4.87 + 0.93 4.33 + 0.88	.5834				 3 7	UNC
6850 6900						4.08 + 0.85 3.84 + 0.83	.5258 .5065				 6 1	UNC
6950 7000						3.61 + 0.80 3.39 + 0.78	.4872 .4679				 1 859	UNC
7035 7140						3.24 + 0.76 2.83 + 0.71	.4150				 2 157	UNC
7175 7250						2.70 + 0.69 2.43 + 0.64	.3743				 1 17	UNC
7500 7750						1.70 + 0.51 1.17 + 0.40 0.80 + 0.29	.2173				 585 44 125	UNCI UNCI UNCI
8000 8500 8550						$ \begin{array}{r} 0.80 + 0.29 \\ 0.40 + 0.16 \\ 0.37 + 0.15 \end{array} $.0875				 700 725	UNC
9000 10000						0.21 + 0.09 0.08 + 0.04	.0486				 2425 36	UNC
11000 TOTAL						0.03 + 0.02	.0073				 36 18687	UNC
DEC18 4500						22.73 + 1.23	.9781				 100	UNCI
4600 4850						21.76 + 1.22 19.39 + 1.21	.9746 .9593				 7 20	UNC
5000 5100						17.98 + 1.19 17.06 + 1.18	.9375				 1000 25	UNC
5125 5200						16.84 + 1.19 16.15 + 1.17	.9264				 495	UNC
5225 5250						15.93 + 1.17 15.70 + 1.16 15.25 + 1.15					 4 2 120	UNCI UNCI UNCI
5300 5325 5350						15.04 + 1.16 14.82 + 1.16	.9103				 4 4	UNC
5400 5430						14.38 + 1.14 14.12 + 1.14	.8989 .8948				 75 41	UNC
5450 5475						13.95 + 1.14 13.73 + 1.13	.8913 .8874				 13 1	UNC
5500 5520						13.52 + 1.13 13.35 + 1.13	.8835 .8799				 4001 31	UNC
5550 5575						13.10 + 1.13 12.88 + 1.11					 81 21	UNC
5580 5600						12.84 + 1.11 12.68 + 1.12 12.47 + 1.11	.8655				 202	UNCI UNCI UNCI
5625 5650 5700						12.26 + 1.11 11.86 + 1.10	.8560				 52 252	UNC
5750 5800						11.45 + 1.09 11.06 + 1.09	.8354 .8244				 94 185	UNC
5850 6000						10.66 + 1.08 9.52 + 1.04	.8132 .7770				 9 3976	UNC
6100 6150						8.79 + 1.02 8.43 + 1.00	.7506 .7368				 40 31	UNC
6152 6200						8.41 + 0.99 8.08 + 0.99	.7229				 50 200	UNC
6275 6300						7.58 + 0.98 7.41 + 0.97 6.76 + 0.94	.6932				 41 100 176	UNCI UNCI UNCI
6400						6.76 + 0.94 6.14 + 0.91 5.85 + 0.90	.6304				 1495 60	UNCI
6500						5.55 + 0.87 5.28 + 0.86	.5971				 1 1	UNC
6550 6600						5.00 + 0.83 4.49 + 0.80	.5628				 3 7	UNC
6550 6600 6650 6700						4.25 + 0.78 4.02 + 0.77	.5104 .4930				 6 1	UNC
6550 6600 6650 6700 6800 6850						3.79 + 0.74 3.58 + 0.72	.4753 .4580				 859	UNC
6550 6600 6650 6700 6800 6850 6900 6950 7000						2 42 . 0 70					 2	UNC
6550 6600 6650 6700 6800 6850 6900 6950 7000 7035 7060						3.43 + 0.70 3.33 + 0.69					 173	
6550 6600 6650 6700 6800 6850 6900 6950 7000 7035 7060 7175 7250		 	 	 		3.33 + 0.69 2.90 + 0.65 2.63 + 0.60	.3982 .3730				 1 17	UNC
6550 6600 6650 6700 68800 68800 69900 7000 7035 7060 77175 7500 7750			 			3.33 + 0.69 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 1.37 + 0.40	.3982 .3730 .2961 .2298				 1 17 585 47	UNC UNC UNC
6550 6600 6650 66700 68800 6880 69900 6950 70035 7060 7175 7250 77500 77750 8000 8400		 		 	 	3.33 + 0.65 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 1.37 + 0.40 0.97 + 0.30 0.58 + 0.20	.3982 .3730 .2961 .2298 .1747 .1129				 1 17 585 47 125 360	UNC UNC UNC UNC UNC
6550 66600 66700 6800 68800 6850 69900 7000 7035 7060 7175 7500 7750 8000 8400 88400 9900		 	 	 	 	3.33 + 0.69 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 1.37 + 0.40 0.97 + 0.30	.3982 .3730 .2961 .2298 .1747 .1129 .1010				 1 17 585 47 125 360 700 1975	UNCI UNCI UNCI UNCI UNCI UNCI UNCI
6550 6600 6650 6700 6800 6850 6990 7000 7035 7060 7175 7250 77500 8000 8400 8500 9000 10000		 	 	 	 	3.33 + 0.65 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 1.37 + 0.40 0.97 + 0.30 0.58 + 0.20 0.51 + 0.17 0.29 + 0.11	.3982 .3730 .2961 .2298 .1747 .1129 .1010				 1 17 585 47 125 360 700	UNCI UNCI UNCI UNCI UNCI UNCI UNCI UNCI
6550 66600 66700 68500 68500 69500 7005 77060 77175 772500 77500 84000 84000 85000 110000 110000 TOTAL			 	 	 	3.33 + 0.65 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 0.97 + 0.30 0.58 + 0.20 0.51 + 0.17 0.29 + 0.11 0.11 + 0.04 0.05 + 0.02	.3982 .3730 .2961 .2298 .1747 .1129 .1010 .0604 .0240				 1 17 585 47 125 360 700 1975 36 34	UNCI UNCI UNCI UNCI UNCI UNCI UNCI UNCI
6550 66600 66700 68700 68800 6850 69950 7000 7175 7250 77500 8400 8400 8500 9000 10000		 	 	 	 	3.33 + 0.65 2.90 + 0.65 2.63 + 0.60 1.91 + 0.50 0.97 + 0.30 0.58 + 0.22 0.51 + 0.17 0.29 + 0.11 0.11 + 0.04	.3982 .3730 .2961 .2298 .1747 .1129 .1010 .0604 .0240 .0110				 1 17 585 47 125 360 700 1975 36 34	UNCE UNCE UNCE UNCE UNCE UNCE UNCE UNCE



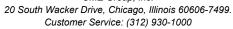


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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		(INTE	OPEN REST
AO CAL JAN19	-L	CRUDE OIL APO	OPTIONS										
5550 5580						12.88 + 1.00 12.65 + 1.01	.8473 .8414					57 5	UNCH UNCH
5600 5645						12.48 + 1.00 12.13 + 0.99	.8379 .8289					55 50	UNCH UNCH
5700 5750						11.69 + 0.97 11.31 + 0.98	.8178 .8071					30 42	UNCH UNCH
5800 5850						10.92 + 0.96 10.55 + 0.96	.7963 .7849					355 9	UNCH UNCH
5900 6000						10.18 + 0.95 9.46 + 0.94	.7734 .7490					151 1582	UNCH UNCH
6050 6100						9.10 + 0.92 8.75 + 0.91	.7367 .7236					130 30	UNCH UNCH
6150 6152						8.41 + 0.91 8.39 + 0.90	.7104 .7101					45 59	UNCH UNCH
6200 6275						8.06 + 0.88 7.57 + 0.86	.6970 .6761					215 41	UNCH UNCH
6345 6350						7.12 + 0.84 7.09 + 0.84	.6560 .6545					2 65	UNCH UNCH
6400 6500						6.79 + 0.85 6.19 + 0.81	.6396 .6093					89 2115	UNCH UNCH
6550 6560						5.90 + 0.80 5.84 + 0.79	.5938					62 62	UNCH
6600 6650						5.62 + 0.78 5.35 + 0.77	.5781 .5621					50 51	UNCH
6665 6700						5.27 + 0.76 5.09 + 0.75	.5573					10 3	UNCH
6750 6850						4.83 + 0.73 4.35 + 0.70	.5297 .4972					10 4	UNCH
6925 6990						4.01 NEW 3.73 + 0.65	.4515				2	2 + 3	UNCH
7000 7100						3.69 + 0.65 3.30 + 0.62	.4483					1461 17	UNCH
7500 8000						2.05 + 0.46 1.10 + 0.29	.2981				130	492 + 190	130 UNCH
8475 8600						0.62 + 0.18 $0.54 + 0.16$.1136					280 50	UNCH
10000 11000						$ \begin{array}{r} 0.14 + 0.04 \\ 0.06 + 0.02 \end{array} $.0287 .0127					1 32	UNCH
TOTAL FEB19											132	8942 +	132
4700 4900						19.96 + 1.00 18.17 + 0.99	.9425					7 25	UNCH UNCH
5430 5500						13.70 + 0.94 13.15 + 0.94	.8457					41 1021	UNCH
5550 5580						12.76 + 0.94 12.52 + 0.93	.8235 .8179					57 5	UNCH
5600						12.38 + 0.94 12.03 + 0.93	.8138					55 50	UNCH
5645 5700 5750						11.61 + 0.91 11.24 + 0.92	.7939					30 42	UNCH
5800						10.88 + 0.92	.7724					310 9	UNCH
5850 5900						10.16 + 0.91	.7499					196	UNCH
6000 6050						9.45 + 0.87 9.11 + 0.87	.7265 .7144					1582 130	UNCH
6100 6150						8.78 + 0.87 8.44 + 0.85	.7019 .6894					30 42	UNCH
6152 6200						8.43 + 0.85 8.11 + 0.83	.6888 .6764					48 159	UNCH
6275 6300						7.63 + 0.81 7.48 + 0.82	.6564					41 45	UNCH
6345 6350						7.19 + 0.79 7.16 + 0.79	.6373 .6359					2 65	UNCH UNCH
6400 6500						6.86 + 0.78 6.26 + 0.74	.6219 .5933					78 2115	UNCH UNCH
6550 6560						5.98 + 0.73 5.93 + 0.73	.5785 .5756					3 56	UNCH UNCH
6600 6650						5.71 + 0.72 5.45 + 0.71	.5636 .5486					50 51	UNCH UNCH
6665 6700						5.37 + 0.70 5.19 + 0.69	.5440					10 3	UNCH UNCH
6750 6850						4.94 + 0.68 4.46 + 0.64	.5182 .4875					10 4	UNCH UNCH
6925 6990						4.12 NEW 3.84 + 0.58	.4444				2	2 + 3	2 UNCH
7000 7100						3.80 + 0.58 3.41 + 0.55	.4414 .4112					1461 17	UNCH UNCH
7500 8000						2.17 + 0.42 1.21 + 0.27	.2997 .1909				130	592 + 170	130 UNCH
8550 8600						$ \begin{array}{r} 0.66 + 0.18 \\ 0.62 + 0.17 \end{array} $.1145 .1086					315 50	UNCH UNCH
10000 11000						$ \begin{array}{r} 0.18 + 0.06 \\ 0.08 + 0.02 \end{array} $.0345 .0160					1 30	UNCH UNCH
TOTAL											132	9013 +	132
MAR19 4700						19.64 + 0.93	.9283					7	UNCH
4900 5430						17.89 + 0.92 13.58 + 0.91	.9062					25 41	UNCH
5500 5550						13.04 + 0.90 12.67 + 0.91	.8130 .8034					1021 57	UNCH
5580 5600						12.44 + 0.89 12.29 + 0.90	.7977 .7937					5 55	UNCH
5645 5700						11.96 + 0.89 11.56 + 0.89	.7848 .7737					50 30	UNCH UNCH
5750 5800						11.20 + 0.89 10.85 + 0.89	.7634 .7527					42 310	UNCH
5850 5900						10.49 + 0.87 10.14 + 0.86	.7419 .7310					9 151	UNCH UNCH
6000 6050						9.47 + 0.86 9.14 + 0.86	.7080 .6962					1582 130	UNCH UNCH
6100 6150						8.80 + 0.83 8.48 + 0.83	.6843 .6721					75 45	UNCH UNCH
6152 6200						8.47 + 0.83 8.16 + 0.81	.6715 .6597					44 155	UNCH UNCH
6275 6345						7.69 + 0.80 7.26 + 0.78	.6405 .6223					41	UNCH
6350 6400						7.23 + 0.78 6.93 + 0.76	.6209 .6076					65 74	UNCH UNCH
6500 6550						6.34 + 0.73 6.06 + 0.70	.5802					2115 3	UNCH
6560 6600						6.00 + 0.69 5.77 + 0.67	.5633					62 50	UNCH
6650 6665						5.51 + 0.65 5.44 + 0.65	.5374					50 10	UNCH
6700 6750						5.26 + 0.64 5.01 + 0.62	.5230					3 10	UNCH
6850						4.54 + 0.59 4.21 NEW	.4792					4 2 +	UNCH 2
6925 6990						3.94 + 0.54 3.90 + 0.54	.4386					2 + 3 1461	UNCH UNCH
7000 7100 7500						3.52 + 0.52	.4357 .4073 .3011				130	1461 17 492 +	UNCH
7500 8000						2.28 + 0.40 1.30 + 0.26 0.69 + 0.18	.1958					492 + 170 50	UNCH
8600 10000						0.69 + 0.18 0.20 + 0.06	.0371					1	UNCH
THE IN	NFORMATIO	N CONTAINED IN	THIS REPORT IS	COMPILED FOR THE CO	NVENIENCE OF THE U	JSER AND IS FURNISHED THE BASIS FOR ANY CLA	WITHOUT	RESPONSI	BILITY F	OR ACCURA	CY OR CO	NTENT. IT	IS

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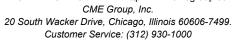




PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		OF INTERE	PEN EST
AO CALI MAR19	L	CRUDE OIL APO	OPTIONS										
11000						0.09 + 0.02	.0175				132	28 8547 +	UNCH 132
TOTAL APR19													
4700 4900						19.37 + 0.87 17.66 + 0.84	.9172 .8933						UNCH
5250 5500						14.84 + 0.84 12.93 + 0.82	.8418 .7983						UNCH UNCH
5550 5580						12.56 + 0.81 12.35 + 0.82	.7890 .7831					57	UNCH UNCH
5600						12.20 + 0.81 11.87 + 0.81	.7793 .7707					55	UNCH
5645 5700						11.48 + 0.80	.7596					30	UNCH
5750 5800						$ \begin{array}{r} 11.13 + 0.80 \\ 10.79 + 0.80 \end{array} $.7493 .7387					310	UNCH
5850 5900						10.44 + 0.79 10.09 + 0.77	.7282 .7174					151	UNCH UNCH
6000 6050						9.43 + 0.75 9.11 + 0.75	.6949 .6833						UNCH
6150 6200						8.47 + 0.73 8.16 + 0.72	.6597 .6476					44	UNCH UNCH
6275 6345						7.70 + 0.71 7.28 + 0.70	.6289 .6112					41	UNCH
6350						7.26 + 0.71	.6099					15	UNCH
6400 6500						6.39 + 0.66	.5969 .5704					2070	UNCH
6550 6560						6.12 + 0.64 6.07 + 0.64	.5568 .5541					60	UNCH
6600 6645						5.86 + 0.63 5.63 + 0.62	.5431 .5308					4	UNCH UNCH
6665 6700						5.53 + 0.62 5.35 + 0.60	.5253 .5155						UNCH
6750 6800						5.11 + 0.59 $4.88 + 0.58$.5017 .4879					10	UNCH UNCH
6925 6990						4.32 NEW 4.06 + 0.52	.4352				2	2 +	2 UNCH
7000						4.02 + 0.52	.4325					1441	UNCH
7100 7500						3.63 + 0.49 2.39 + 0.39	.4050				130	492 +	UNCH 130
7775 8000						$ \begin{array}{r} 1.78 + 0.32 \\ 1.40 + 0.26 \end{array} $.2433					170	UNCH
8600 10000						$ \begin{array}{r} 0.76 + 0.18 \\ 0.23 + 0.07 \end{array} $.1213 .0410					1	UNCH UNCH
11000 TOTAL						0.11 + 0.03	.0204				132	27 8540 +	UNCH 132
MAY19													
4700 4900						19.10 + 0.80 17.44 + 0.79	.9057 .8805						UNCH
5250 5500						14.68 + 0.77 $12.81 + 0.74$.8279 .7846						UNCH
5550 5580						12.45 + 0.73 12.23 + 0.73	.7753 .7696					57	UNCH
5600						12.10 + 0.73 11.78 + 0.74	.7656 .7569					55	UNCH
5645 5700						11.39 + 0.71	.7462					30	UNCH
5800 5850						$ \begin{array}{r} 10.71 + 0.70 \\ 10.37 + 0.69 \end{array} $.7256 .7152					9	UNCH
5900 6000						$ \begin{array}{r} 10.04 + 0.68 \\ 9.39 + 0.67 \end{array} $.7045 .6824					1655	UNCH UNCH
6050 6150						9.07 + 0.66 8.45 + 0.66	.6712 .6480						UNCH UNCH
6200 6345						8.14 + 0.65 7.29 + 0.63	.6361 .6006						UNCH
6350 6400						7.26 + 0.63 6.98 + 0.63	.5993 .5867						UNCH
6500 6550						6.43 + 0.61 6.17 + 0.60	.5609 .5478					2070	UNCH
6560						6.12 + 0.60 5.91 + 0.59	.5452					62	UNCH
6600 6645						5.69 + 0.59	.5229					4	UNCH
6665 6700						5.59 + 0.58 5.42 + 0.57	.5176 .5083					3	UNCH
6750 6800						5.18 + 0.56 4.95 + 0.54	.4949 .4816					45	UNCH
6925 6990						4.40 NEW 4.14 + 0.49	.4310				2 	2 + 3	2 UNCH
7000 7100						4.10 + 0.49 3.72 + 0.47	.4283 .4022					1441 17	UNCH
7500 7775						$ \begin{array}{r} 2.48 + 0.37 \\ 1.87 + 0.31 \end{array} $.3041 .2464				130	492 + 275	130 UNCH
8000 8600						1.49 + 0.26 0.82 + 0.18	.2063 .1262					170	UNCH
10000 11000						0.25 + 0.07 0.12 + 0.03	.0434					1	UNCH
TOTAL						0.12 + 0.03	.0210				132	8460 +	132
JUN19 4700						18.84 + 0.75	.8941					7	UNCH
4900						17.22 + 0.75 14.52 + 0.73	.8677 .8147					25	UNCH
5250 5500						12.70 + 0.70	.7714					755	UNCH
5550 5580						12.13 + 0.70	.7621 .7565					5	UNCH
5600 5645						12.00 + 0.70 11.69 + 0.69	.7526 .7440					50	UNCH
5700 5800						11.31 + 0.69 $10.63 + 0.67$.7333 .7132					310	UNCH
5850 5900						$ \begin{array}{r} 10.30 + 0.66 \\ 9.98 + 0.66 \end{array} $.7029 .6924					151	UNCH UNCH
6000 6050						9.33 + 0.63 9.02 + 0.62	.6709 .6597						UNCH
6150 6200						8.41 + 0.61 8.12 + 0.62	.6370 .6253					44	UNCH
6345						7.29 + 0.61 7.26 + 0.61	.5906					2	UNCH
6350 6500						6.47 + 0.60	.5521					2070	UNCH
6550 6560						6.15 + 0.58	.5395					60	UNCH
6600 6645						5.95 + 0.57 5.72 + 0.56	.5267 .5151					4	UNCH
6665 6700						5.62 + 0.55 5.45 + 0.54	.5100 .5009					3	UNCH
6750 6925						5.21 + 0.52 4.45 NEW	.4879				2		UNCH 2
6990 7000						4.19 + 0.46 4.15 + 0.46	.4263 .4237					3	UNCH UNCH
7100						3.78 + 0.44 2.57 + 0.36	.3986				130		UNCH 130
7500 7775						1.94 + 0.28	.2481					275	UNCH
8000 8600						0.88 + 0.17	.1308					50	UNCH
10000 11000						$ \begin{array}{rcl} 0.28 & + & 0.07 \\ 0.15 & + & 0.05 \end{array} $.0470 .0258					25	UNCH UNCH
TOTAL JUL19											132	8366 +	132
	FORMATTON	I CONTATNED THE	THIS REDORT TO	COMPTLED FOR THE CO	NVENTENCE OF THE I	JSER AND IS FURNISHED W	/TTHOUT P	FSPONST	RTITTV F	OR ACCIIDA	CY OR CO	NTENT TT T	rs.
ACCEPTION													

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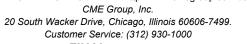
Side 18

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
AO CAL	L	CRUDE OIL APO	OPTIONS						VOLUME				
JUL19 4700						18.62 + 0.73	.8835					5	UNCH
4900 5400						17.03 + 0.71 13.30 + 0.68	.8570 .7781					25 30	UNCH
5500 5550						12.60 + 0.68 12.26 + 0.68	.7601 .7509					373 5	UNCH
5580 5600						12.04 + 0.67 $11.91 + 0.67$.7455 .7417					5 55	UNCH UNCH
5700 5800						11.22 + 0.64 $10.56 + 0.63$.7227 .7029					30 310	UNCH UNCH
5850 5900						$ \begin{array}{r} 10.23 + 0.62 \\ 9.91 + 0.61 \end{array} $.6927 .6823					9 1	UNCH UNCH
5950 6000						9.59 + 0.60 9.27 + 0.59	.6717 .6610					50 1265	UNCH UNCH
6050 6150						8.98 + 0.59 8.38 + 0.58	.6500 .6276					130 35	UNCH
6200 6350						8.09 + 0.58 7.26 + 0.58	.6162 .5810					210 15	UNCH
6500 6560						6.47 + 0.56 $6.16 + 0.55$. 5445 . 5297					2080 62	UNCH
6600 6665						5.96 + 0.54 5.63 + 0.51	.5198					50 10	UNCH
6700 6925						5.46 + 0.50 4.47 NEW	.4945				2	3 2 +	UNCH 2
6990 7000						4.22 + 0.43 4.19 + 0.44	.4220 .4197					3 1506	UNCH
7100						3.82 + 0.41	.3953					17 30	UNCH
7200 7400						2.89 + 0.35	.3262					40 522 +	UNCH
7500 8000						2.63 + 0.34 1.64 + 0.23	.3048				130 	170	130 UNCH
8600 10000						$ \begin{array}{r} 0.94 + 0.16 \\ 0.31 + 0.08 \end{array} $.1353					50 1	UNCH
11000 TOTAL						0.16 + 0.05	.0271				132	23 7122 +	UNCH 132
AUG19						19 41 , 0.00	9727					5	LINICH
4700 4900						18.41 + 0.68 16.86 + 0.68	.8737 .8466					25	UNCH
5400 5500						13.21 + 0.65 12.51 + 0.64	.7675 .7498					30 37 <u>3</u>	UNCH
5550 5580						12.17 + 0.63 11.96 + 0.63	.7409 .7353					5 5	UNCH
5600 5700						11.83 + 0.62 $11.16 + 0.60$.7316 .7128					55 30	UNCH UNCH
5800 5850						10.49 + 0.58 10.18 + 0.58	.6933 .6832					310 9	UNCH UNCH
5900 5950						9.86 + 0.56 9.54 + 0.55	.6730 .6626					1 50	UNCH
6000 6050						9.24 + 0.55 8.94 + 0.54	.6519 .6412					1265 130	UNCH
6150 6200						8.36 + 0.54 8.08 + 0.54	.6191 .6079					35 210	UNCH
6350 6500						7.27 + 0.54 6.48 + 0.52	.5734 .5377					15 2080	UNCH
6560						6.18 + 0.51 5.98 + 0.50	.5233 .5136					62 50	UNCH
6600 6665						5.66 + 0.48 5.49 + 0.47	.4977 .4891					10 3	UNCH
6700 6925						4.52 NEW	.4189				2	2 +	UNCH 2
6990 7000						4.28 + 0.42 4.24 + 0.41	.4165					1506	UNCH
7100 7200						3.89 + 0.41 3.55 + 0.38	.3932					17 30	UNCH
7400 7500						2.96 + 0.33 2.70 + 0.31	.3261 .3053				130	40 522 +	UNCH 130
8000 8600						$ \begin{array}{r} 1.71 + 0.21 \\ 1.01 + 0.15 \end{array} $.2160 .1405					170 50	UNCH UNCH
10000 11000						$ \begin{array}{r} 0.34 + 0.08 \\ 0.18 + 0.05 \end{array} $.0536 .0295					1 22	UNCH
TOTAL											132	7121 +	132
SEP19 4700						18.25 + 0.63	.8660					5	UNCH
4900 5400						16.73 + 0.63 $13.13 + 0.59$.8384 .7596					25 30	UNCH UNCH
5500 5550						12.45 + 0.58 $12.12 + 0.58$.7420 .7330					373 5	UNCH UNCH
5580 5600						11.91 + 0.58 11.78 + 0.57	.7276 .7239					5 55	UNCH UNCH
5700 5800						11.12 + 0.55 $10.47 + 0.53$.7052 .6859					30 310	UNCH UNCH
5850 5900						$ \begin{array}{r} 10.15 + 0.52 \\ 9.85 + 0.52 \end{array} $.6760 .6658					9 1	UNCH UNCH
5950 6000						9.54 + 0.51 9.24 + 0.51	.6555 .6451					50 1265	UNCH
6050 6150						8.95 + 0.51 8.38 + 0.50	.6344 .6128					130 34	UNCH
6200 6350						8.09 + 0.49 7.28 + 0.48	.6017 .5678					210 15	UNCH
6500 6560						6.52 + 0.48 6.22 + 0.47	.5331 .5190					2080 60	UNCH
6600 6665						6.03 + 0.47 5.72 + 0.46	.5096 .4941					50 10	UNCH
6700 6925						5.55 + 0.44 4.61 NEW	.4857					3 2 +	UNCH 2
6990						4.36 + 0.40 4.32 + 0.40	.4177 .4153					3 1506	UNCH UNCH
7000 7100						3.96 + 0.38	.3923					17	UNCH
7200 7400						3.63 + 0.36 $3.05 + 0.32$.3700					30 40	UNCH UNCH
7500 8000						2.79 + 0.30 1.80 + 0.21	.3074				130	522 + 170	130 UNCH
8600 10000						1.08 + 0.14 0.37 + 0.07	.1456					50 1	UNCH
11000 TOTAL						0.20 + 0.05	.0320				132	22 7118 +	UNCH 132
OCT19						18.00 . 0.50	0507					-	IINGII
4700 4900						18.09 + 0.59 16.59 + 0.58	.8587 .8309					25 25	UNCH
5400 5500						13.05 + 0.55 12.37 + 0.53	.7520 .7347					30 37 <u>3</u>	UNCH
5550 5600						12.04 + 0.52 11.71 + 0.52	.7258 .7166					5 55	UNCH UNCH
5700 5800						11.06 + 0.51 $10.42 + 0.49$.6980 .6789					30 310	UNCH
5850 5900						$ \begin{array}{r} 10.12 + 0.49 \\ 9.81 + 0.48 \end{array} $.6690 .6589					59 1	UNCH
5950 6000						9.51 + 0.47 9.21 + 0.47	.6488 .6384					50 1230	UNCH
6050 6150						8.93 + 0.47 8.36 + 0.46	.6280					130 35	UNCH
6200						8.09 + 0.46 7.29 + 0.45	.5957					210 15	UNCH
6350 6500						6.53 + 0.44 6.24 + 0.44	.5282					2080 62	UNCH
6560 6600						6.24 + 0.44 6.06 + 0.45	.5053					50	UNCH
						USER AND IS FURNISHED NETTER THE BASIS FOR ANY CLA					CY OR CC	NTENT. IT	IS

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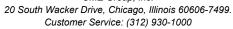
Side 19

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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THE NO	DMINAL	PRICE IS THE	PREVIOUS DAY'	S SETTLEMENT PRI	ICE.							,
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	OPEN INTEREST
AO CALI OCT19	L	CRUDE OIL APO	OPTIONS									
6665 6925						5.76 + 0.44 4.67 NEW	.4904				 2	10 UNCH 2 + 2
6990 7000						4.43 + 0.41 $4.39 + 0.40$.4162 .4138					3 UNCH 930 UNCH
7100 7200						4.03 + 0.38 3.70 + 0.36	.3914					17 UNCH 30 UNCH
7500 8000						2.86 + 0.29 1.87 + 0.20	.3085				130	892 + 130 170 UNCH
8600 10000						1.15 + 0.15 0.41 + 0.08	.1505					50 UNCH 1 UNCH
11000						0.22 + 0.05	.0343				132	21 UNCH 6881 + 132
TOTAL NOV19											132	0001 + 132
4700 4900						17.92 + 0.55 $16.45 + 0.55$.8521 .8240					5 UNCH 25 UNCH
5400 5500						12.95 + 0.50 12.28 + 0.49	.7453 .7280					30 UNCH 373 UNCH
5550 5600						11.96 + 0.49 11.64 + 0.49	.7191 .7100					5 UNCH 55 UNCH
5700 5800						11.00 + 0.48 10.37 + 0.46	.6915					30 UNCH 310 UNCH
5850 5900						10.07 + 0.46 9.76 + 0.45	.6626					59 UNCH 1 UNCH
5950						9.47 + 0.44 9.18 + 0.44	.6426					50 UNCH 1230 UNCH
6000 6050						8.89 + 0.44	.6220					130 UNCH 34 UNCH
6150 6200						8.06 + 0.43	.6008					210 UNCH
6350 6500						7.27 + 0.41 6.54 + 0.43	.5570					15 UNCH 2080 UNCH
6560 6600						6.25 + 0.42 6.07 + 0.43	.5101					60 UNCH 50 UNCH
6665 6925						5.78 + 0.43 4.71 NEW	.4866				2	10 UNCH 2 + 2
6990 7000						4.47 + 0.40 4.43 + 0.39	.4141					3 UNCH 930 UNCH
7100 7200						4.08 + 0.38 3.75 + 0.35	.3901				120	17 UNCH 30 UNCH
7500 8000						2.92 + 0.28 1.93 + 0.19	.3092				130	892 + 130 170 UNCH
8600 10000						$ \begin{array}{r} 1.21 + 0.15 \\ 0.44 + 0.07 \end{array} $.1544					50 UNCH 1 UNCH
11000 TOTAL						0.24 + 0.05	.0366				132	20 UNCH 6877 + 132
DEC19						17.67 . 0.52	9463					F INCH
4700 4900						17.67 + 0.52 16.20 + 0.51	.8462 .8183					5 UNCH 25 UNCH
5400 5500						12.75 + 0.47 12.10 + 0.46	.7388					30 UNCH 373 UNCH
5550 5600						11.76 + 0.45 11.44 + 0.44	.7125 .7034					5 UNCH 55 UNCH
5700 5800						$ \begin{array}{r} 10.82 + 0.44 \\ 10.20 + 0.42 \end{array} $.6848 .6656					30 UNCH 310 UNCH
5850 5900						9.90 + 0.41 9.61 + 0.41	.6557 .6458					59 UNCH 1 UNCH
5950 6000						9.31 + 0.41 9.03 + 0.41	.6356 .6254					50 UNCH 1230 UNCH
6050 6150						8.75 + 0.40 8.19 + 0.39	.6150 .5938					130 UNCH 35 UNCH
6200 6350						7.92 + 0.38 7.15 + 0.38	.5830 .5500					210 UNCH 15 UNCH
6500 6560						6.43 + 0.39 6.15 + 0.39	.5169 .5035					2106 UNCH 62 UNCH
6600 6665						5.97 + 0.39 5.68 + 0.38	.4946 .4800					50 UNCH 10 UNCH
6925 6990						4.64 NEW 4.40 + 0.35	.4084				2	2 + 2 3 UNCH
7000 7100						4.36 + 0.35 4.01 + 0.33	.4061 .3844					930 UNCH 17 UNCH
7200 7500						3.69 + 0.30 2.89 + 0.26	.3635 .3054				130	30 UNCH 892 + 130
8000 8500						1.92 + 0.17 1.32 NEW	.2240 .1648				125	170 UNCH 125 + 125
8600 10000						$ \begin{array}{rrrr} 1.22 & + & 0.14 \\ 0.46 & + & 0.07 \end{array} $.1544					50 UNCH 1 UNCH
11000 TOTAL						0.25 + 0.05	.0376				257	19 UNCH 7030 + 257
JAN20												
4800 5475						16.70 + 0.47 12.08 + 0.42	.8268 .7195					5 UNCH 31 UNCH
5500 5575						11.92 + 0.41 $11.44 + 0.40$.7151 .7016					115 UNCH 31 UNCH
5850 6000						9.76 + 0.38 8.90 + 0.36	.6492 .6189					5 UNCH 185 UNCH
6100 6300						8.35 + 0.36 7.31 + 0.35	.5979 .5547					8 UNCH 25 UNCH
7000 10000						4.32 + 0.31 0.48 + 0.07	.4016 .0676					1 UNCH 1 UNCH
11000 TOTAL						0.27 + 0.05	.0398					18 UNCH 425
FEB20							_					
4800 5475						$ \begin{array}{r} 16.51 + 0.42 \\ 11.95 + 0.38 \end{array} $.8219 .7141					5 UNCH 29 UNCH
5500 5575						11.79 + 0.37 $11.31 + 0.37$.7097 .6962					115 UNCH 29 UNCH
5850 6000						9.65 + 0.34 8.80 + 0.33	.6438 .6134					5 UNCH 185 UNCH
6100 6300						8.26 + 0.32 7.23 + 0.31	.5925 .5495					8 UNCH 25 UNCH
7000 10000						4.29 + 0.27 0.50 + 0.06	.3979 .0695					1 UNCH 1 UNCH
11000 TOTAL						0.28 + 0.03	.0408					18 UNCH 421
MAR20												
4800 5475						16.32 + 0.38 11.79 + 0.33	.8171 .7090					5 UNCH 31 UNCH
5500 5575						11.63 + 0.33 $11.16 + 0.32$.7046 .6910					115 UNCH 31 UNCH
5850 6000						9.53 + 0.31 8.69 + 0.29	.6384 .6079					5 UNCH 185 UNCH
6300 6750						7.14 + 0.28 5.17 + 0.26	.5441 .4471					25 UNCH 8 UNCH
7000 10000						4.25 + 0.23 $0.53 + 0.06$.3940					1 UNCH 1 UNCH
11000 TOTAL						0.29 + 0.02	.0418					17 UNCH 424
APR20												
4800 5475						16.15 + 0.34 11.67 + 0.30	.8125 .7041					5 UNCH 30 UNCH
5500 5575						11.51 + 0.29 11.05 + 0.29	.6997 .6860					115 UNCH 30 UNCH
5850	FORMATIO	 N CONTAINED IN	 THIS REPORT IS (COMPILED FOR THE CO	ONVENIENCE OF THE U	9.44 + 0.27 SER AND IS FURNISHED	.6334	 RESPONSI	BILITY F	OR ACCURA	CY OR CO	5 UNCH
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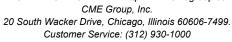


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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CE.							
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME V	PNT OLUME		OPEN EREST
AO CAL APR20	L	CRUDE OIL APO	OPTIONS									
6000 6300						8.60 + 0.26 7.08 + 0.25	.6030				185 25	UNCH
6750 7000						5.14 + 0.23 $4.23 + 0.19$ $0.55 + 0.05$.4435 .3910 .0739				8 1 1	UNCH UNCH UNCH
10000						$ \begin{array}{r} 0.55 + 0.05 \\ 0.31 + 0.02 \end{array} $.0439				17 422	UNCH
TOTAL MAY20												
4800 5475						15.97 + 0.32 11.52 + 0.27	.8082 .6992				5 31	UNCH
5500 5575						11.37 + 0.27 10.91 + 0.25	.6946 .6810				115 31 5	UNCH
5850 6000						9.32 + 0.25 8.50 + 0.24 7.00 + 0.22	.6283 .5978 .5346				185 25	UNCH UNCH UNCH
6300 6750 7000						5.09 + 0.20 4.20 + 0.17	.4393				8 1	UNCH
10000 11000						0.58 + 0.06 0.33 + 0.02	.0766				1 16	UNCH
TOTAL											423	
JUN20 4800						15.80 + 0.30	.8034				5	UNCH
5475 5500						11.39 + 0.25 11.24 + 0.26	.6942 .6897 .6760				30 115	UNCH
5575 5850						$\begin{array}{r} 10.79 + 0.25 \\ 9.22 + 0.24 \\ 8.41 + 0.23 \end{array}$.6232				30 5 185	UNCH UNCH UNCH
6000 6300 7000						8.41 + 0.23 6.93 + 0.22 4.17 + 0.16	.5298				25 1	UNCH
10000 11000						0.61 + 0.07 0.35 + 0.03	.0791				1 16	UNCH
TOTAL											413	
JUL20 5475						11.26 + 0.25	.6895				31	UNCH
5500 5575						$\begin{array}{cccccccccccccccccccccccccccccccccccc$.6850 .6712 .5879				100 31 185	UNCH UNCH UNCH
6000 6300 7000						6.86 + 0.21 4.15 + 0.16	.5253				25 1	UNCH
10000 11000						0.64 + 0.08 0.37 + 0.04	.0817				1 15	UNCH
TOTAL											389	
AUG20 5475						11.16 + 0.25	.6851				31	UNCH
5500 5575						11.00 + 0.24 10.57 + 0.24	.6806 .6668				100 31	UNCH
6000 6300						8.25 + 0.23 $6.81 + 0.21$ $4.13 + 0.15$.5835 .5213 .3788				185 25 1	UNCH UNCH UNCH
7000 10000 11000						0.67 + 0.09 0.39 + 0.05	.0842				1 15	UNCH
TOTAL						0.33 1 0.03	.0310				389	Orteri
SEP20 5475						11.07 + 0.24	.6812				30	UNCH
5500 5575						10.92 + 0.23 10.49 + 0.23	.6767 .6629				100 30	UNCH
6000 6300						8.19 + 0.21 6.77 + 0.20	.5797 .5179 .3771				185 25	UNCH
7000 10000						$\begin{array}{cccccccccccccccccccccccccccccccccccc$.3771 .0866 .0537				1 1 14	UNCH UNCH UNCH
11000 TOTAL						0.41 + 0.00	.0337				386	UNCH
ост20 5475						10.98 + 0.22	.6776				31	UNCH
5500 5575						$ \begin{array}{r} 10.84 + 0.23 \\ 10.41 + 0.22 \end{array} $.6731 .6593				100 31	UNCH UNCH
6000 6300						8.14 + 0.20 6.73 + 0.18	.5761				185 25	UNCH
7000 10000						$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.3756 .0890				1 1	UNCH
11000 TOTAL						0.43 + 0.06	.0555				14 388	UNCH
NOV20 5475						10.97 + 0.21	.6747				30	UNCH
5500 5575						$ \begin{array}{r} 10.83 + 0.22 \\ 10.40 + 0.22 \end{array} $.6702 .6565				100 30	UNCH UNCH
6000 6300						8.12 + 0.20 6.72 + 0.18	.5736 .5127				185 25	UNCH
7000 10000						4.14 + 0.14 $0.75 + 0.09$.3748				1 1	UNCH
11000 TOTAL						0.46 + 0.06	.0583				13 385	UNCH
DEC20 5475						10.95 + 0.19	.6701				31	UNCH
5500 5575						$ \begin{array}{r} 10.81 + 0.20 \\ 10.37 + 0.19 \end{array} $.6657 .6521				100 31	UNCH UNCH
6000 6300						8.04 + 0.19 6.63 + 0.17	.5692 .5083				185 25	UNCH
7000 10000						4.10 + 0.13 $0.71 + 0.03$.3716				1 1	UNCH
11000 TOTAL						0.48 + 0.02	.0600				13 387	UNCH
JAN21 6500						5.76 + 0.15	.4645				125	UNCH
7000 10000						4.09 + 0.12 0.72 + 0.02	.3695 .0878				16 1	UNCH UNCH
11000 TOTAL						0.49 + 0.01	.0609				13 155	UNCH
FEB21 6500						5.74 + 0.14	.4621				125	UNCH
7000 10000						4.09 + 0.11 0.73 + 0.02	.3682				16 1	UNCH
11000 TOTAL						0.51 + 0.02	.0626				13 155	UNCH
MAR21						E 70 . 0.10	4501					100000
6500 7000						5.70 + 0.13 4.08 + 0.11	.4591				125 16	UNCH
10000 11000						$ \begin{array}{rcr} 0.74 & + & 0.02 \\ 0.51 & + & 0.01 \end{array} $.0893 .0626				1 12 154	UNCH
TOTAL APR21												
6500 7000						5.68 + 0.12 4.08 + 0.10	.4564				125 16	UNCH
10000 11000						$ \begin{array}{r} 0.76 + 0.02 \\ 0.53 + 0.02 \end{array} $.0908 .0643				1 12	UNCH UNCH
TOTAL	F0P**:-	N CONT. T.:	TUTC 2522-	**************************************	NO CENTERIOS -	CED AND TO THE	/TTIIO: T === :	.n	OB 15-	TV 65 **	154	
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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.F & PT.C		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX [®] VOLUME	INTE	OPEN EREST
AO CAL	L	CRUDE OIL APO	OPTIONS							10202			
MAY21 6500 7000						5.67 - 4.09 -		.4545 .3641				 125 16	UNCH UNCH
10000 11000						0.77 - 0.54 -	+ 0.02	.0916				 1 12	UNCH
TOTAL						0.5.	. 0102	.0031				154	oe
JUN21 6500						5.65 -		.4524				 125	UNCH
7000 10000						4.10 - 0.79 -	+ 0.03	.3632 .0931				 16 1	UNCH UNCH
11000 TOTAL						0.55 -	+ 0.02	.0660				 11 153	UNCH
JUL21						F 62	. 0.10	4407				 125	UNCU
6500 7000						5.62 - 4.10 - 0.80 -	+ 0.09	.4497 .3619 .0938				 125 16 1	UNCH UNCH UNCH
10000 11000						0.80 - 0.56 -		.0668				 11 153	UNCH
TOTAL AUG21												133	
6500 7000						5.62 - 4.11 -		.4483 .3613				 125 16	UNCH UNCH
10000 11000						0.82 - 0.57 -	+ 0.03	.0953 .0676				 1 11	UNCH UNCH
TOTAL												153	
SEP21 6500						5.62 -		.4469				 125	UNCH
7000 10000						4.13 - 0.83 -	+ 0.02	.3610 .0960				 16 1	UNCH
11000 TOTAL						0.58 -	+ 0.01	.0684				 11 153	UNCH
ост21 6500						5.62 -	+ 0.10	.4456				 125	UNCH
7000 10000						4.15 - 0.85 -	+ 0.09	.3608				 16 1	UNCH
11000						0.60 -		.0701				 11 153	UNCH
TOTAL NOV21													
6500 7000						5.61 - 4.17 -	+ 0.08	.4440 .3606				 125 16	UNCH UNCH
10000 11000						0.88 - 0.61 -		.0998 .0709				 1 10	UNCH UNCH
TOTAL DEC21												152	
6500						5.58 - 4.18 -		.4416 .3598				 125 16	UNCH
7000 10000						0.92 - 0.63 -	+ 0.02	.1027				 1 1 10	UNCH
11000 TOTAL						0.03	0.02	.0723				152	ONCH
JAN22 11000						0.63 -	+ 0.02	.0725				 10	UNCH
TOTAL												10	
FEB22 11000						0.63 -	+ 0.02	.0724				 10	UNCH
TOTAL												10	
MAR22 11000						0.62 -	+ 0.01	.0716				 10 10	UNCH
TOTAL APR22												10	
11000						0.62 -	+ 0.01	.0716				 10 10	UNCH
TOTAL MAY22													
11000 TOTAL						0.62 -	+ 0.02	.0716				 9 9	UNCH
JUN22						0.63	. 0.03	0715				0	
11000 TOTAL						0.62 -	+ 0.02	.0715				 9 9	UNCH
JUL22 11000						0.62 -	+ 0.02	.0715				 9	UNCH
TOTAL						0.02	. 0.02	.0713				9 9	onen
AUG22 11000						0.61 -	+ 0.01	.0707				 9 9	UNCH
TOTAL												9	
SEP22 11000						0.61 -	+ 0.02	.0707				 9 9	UNCH
TOTAL OCT22												9	
11000						0.61 -	+ 0.02	.0707				 9 9	UNCH
TOTAL NOV22													
11000 TOTAL						0.61 -	+ 0.02	.0706				 9 9	UNCH
DEC22													
11000 TOTAL						0.62 -	+ 0.02	.0714				 9 9	UNCH
JAN23						0.63 -	+ 0.02	.0723				 8	UNCH
11000 TOTAL						0.03	0.02	.0723				 8	UNCH
FEB23 11000						0.63 -	+ 0.02	.0722				 8	UNCH
TOTAL						0.03	. 0102					8 8	oe
MAR23 11000						0.64 -	+ 0.02	.0730				 8 8	UNCH
TOTAL												8	
APR23 11000						0.65 -	+ 0.02	.0738				 8 8	UNCH
TOTAL MAY23													
11000						0.66 -	+ 0.02	.0746				 8 8	UNCH
TOTAL JUN23													
11000 TOTAL						0.66	+ 0.02	.0746				 8 8	UNCH
JUL23						0.67	. 0.03	0754					Inicii
11000 TOTAL						0.67 -	+ 0.02	.0754				 8 8	UNCH

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	LOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PI & PT.CI			DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME	INT	OPE TERES
ALL		CRUDE OIL APO	O OPTIONS								VOLUME			
:3)0 AL						0.68 +	-	0.02	.0762				 8 8	ι
3						0.68 +		0.02	.0762				 8	ι
AL 3													8	
)0 AL						0.69 +	•	0.02	.0770				 8 8	ι
UT .8		CRUDE OIL APO	O OPTIONS											
))						0.01 0.01		UNCH UNCH					 261 776	l
)						0.01 0.01		UNCH					 1509	L L
)						0.01 0.01		UNCH					 9 455	L L
))						0.01 0.01		UNCH					 13 15	l l
))						0.01 0.01		UNCH					 120 153	
))						0.01 0.01		UNCH					 3577 125	l
))						0.01 0.01		UNCH					 550 203	l l
)						0.01 0.01		UNCH					 474 30	L L
))						0.01 0.01		UNCH					 11 5785	l l
))						0.01 0.01 0.01		UNCH					 55 50	l l
)						0.01 0.01 0.01		UNCH					 136 45 50	l l
)						0.01		UNCH					 45	į
)						0.01 0.01		UNCH					 438 200	Į
)						0.01 0.01		UNCH					 250 250	
))						0.01 0.01		UNCH					 3 74	
))						0.01 0.01		UNCH					 519 284	
)						0.01 0.79 -		UNCH 0.31	.9999				 46 50	
))0						2.79 - 52.78 -		0.31 0.31	$1.0000 \\ 1.0000$				 100 100	
L													16518	
8						0.01		UNCH					 261 957	
						0.01 0.01		UNCH					 2909	
						0.01 0.01		UNCH					 9 337	
						0.01 0.01		UNCH					 13 1	
						0.01 0.01		UNCH					 50 153	
))						0.01 0.01		UNCH					 4498 225	
)						0.01 0.01		UNCH					 550 341	l L
)						0.01 0.01		UNCH					 241 31	l L
))						0.01 0.01		UNCH UNCH					 11 6403	į
))						0.01 0.01		UNCH UNCH					 55 132	l l
))						0.01 0.01		UNCH UNCH					 1 180	l l
))						0.01 0.01		UNCH UNCH					 90 1351	l l
))						$\substack{0.01\\0.01}$		UNCH UNCH					 200 234	(
))						$\substack{0.01\\0.01}$		UNCH UNCH	.0000				 2034 2	(
))						0.01 0.01		UNCH UNCH	.0002				 1486 50	
))						0.01 - 0.01 -		0.01	.0018 .0045				 188 1225	(
))						0.03 - 0.05 -		0.08	.0195 .0322				 500 4	
))0						0.18 - 47.66 -		0.39 2.15	.1007 1.0000				 100 200	
٨L													25022	
.8)						0.01		UNCH					 261	ι
))						0.01 0.01		UNCH UNCH					 957 2909	
)						$\substack{0.01\\0.01}$		UNCH UNCH					 9 337	į
)						$\substack{0.01\\0.01}$		UNCH UNCH					 13 1	į
,)						$\substack{0.01\\0.01}$		UNCH					 50 153	į
)						$\substack{0.01\\0.01}$		UNCH	.0000				 4503 225	į
))						$\substack{0.01\\0.01}$		UNCH	.0000				 550 341	i
)						$\substack{0.01\\0.01}$		UNCH	.0000				 241 31	į
)						$\substack{0.01\\0.01}$		UNCH	.0001				 11 6396	į
,						0.01 0.01		UNCH	.0006				 55 132	į
,						0.01 - 0.01 -		0.01	.0022				 1 180	į
						0.02 - 0.02 -		0.01	.0071				 90 1350	į
)))						0.02 - 0.03 - 0.04 -		0.01	.0108				 200 234	
)						0.04 - 0.06 - 0.08 -		0.03	.0210				 32	
)))						0.11 - 0.12 -		0.06	.0376				 1502 50	
,))						0.20 - 0.29 -		0.13 0.17	.0661				 140 225	
						0.54 - 0.72 -		0.30	.1553				 500 4	
0						49.03 -		1.91	1.0000				 50 21735	
L														





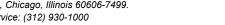
FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
AO PUT	г	CRUDE OIL APO	OPTIONS					VOLUME		
SEP18 3500						0.01 UNCH 0.01 UNCH	.0000			955 UNCH 2906 UNCH
4000 4100 4200						0.01 UNCH 0.01 UNCH	.0000			9 UNCH 337 UNCH
4250 4300						0.01 UNCH 0.01 UNCH	.0002			13 UNCH 1 UNCH
4325 4400						0.01 UNCH 0.01 UNCH	.0003			50 UNCH 153 UNCH
4500 4600						0.01 UNCH 0.01 - 0.01	.0009			4500 UNCH 225 UNCH
4700 4750						0.01 - 0.01 0.01 - 0.01	.0024			550 UNCH 341 UNCH
4800 4810						$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0054			241 UNCH 30 UNCH
4900 5000						0.02 - 0.01 0.03 - 0.01	.0057			11 UNCH 6387 UNCH
5100 5200						0.04 - 0.01 0.05 - 0.02	.0109			55 UNCH 132 UNCH
5300 5400						0.07 - 0.02 0.09 - 0.03	.0186			1 UNCH 180 UNCH
5450 5500						0.10 - 0.03 0.11 - 0.04	.0264 .0291			90 UNCH 1412 UNCH
5600 5700						0.14 - 0.06 0.19 - 0.07	.0367			200 UNCH 234 UNCH
5800 5900						0.24 - 0.09 0.31 - 0.12	.0602 .0758			11 UNCH 2 UNCH
6000 6050						0.40 - 0.15 0.45 - 0.17	.0950 .1055			1501 UNCH 50 UNCH
6200 6300						0.66 - 0.22 0.83 - 0.27	.1456 .1765			140 UNCH 225 UNCH
6500 6600						1.29 - 0.38 1.58 - 0.45	.2515 .2945			500 UNCH 4 UNCH
12000 TOTAL						50.03 - 1.74	.9999			50 UNCH 21757
OCT18						0.01	0000			
3000 3500						0.01 UNCH 0.01 UNCH	.0000			261 UNCH 1056 UNCH
4000 4100						0.01 - 0.01 0.02 UNCH	.0022			2754 UNCH 9 UNCH
4200 4250						0.02 UNCH 0.02 UNCH	.0043			337 UNCH 9 UNCH
4300 4325						0.02 - 0.01 0.03 UNCH	.0045 .0062 .0065			1 UNCH 55 UNCH 153 UNCH
4400 4500						0.03 UNCH 0.03 - 0.01	.0068			3626 UNCH
4600 4700						0.04 - 0.01 0.05 - 0.01	.0111			225 UNCH 550 UNCH
4750 4800						0.06 - 0.01 0.06 - 0.01	.0133			341 UNCH 241 UNCH
4810 4900						0.06 - 0.02 0.08 - 0.01	.0134			31 UNCH 11 UNCH
5000 5100						0.09 - 0.02 0.12 - 0.02	.0200			6700 UNCH 55 UNCH
5200 5300						0.14 - 0.03 0.18 - 0.04	.0305			132 UNCH 1 UNCH
5400 5450						0.22 - 0.05 0.24 - 0.06	.0465			130 UNCH 90 UNCH
5500 5600						0.27 - 0.07 0.34 - 0.08	.0564			1468 UNCH 200 UNCH
5700 5750						0.42 - 0.10 0.47 - 0.11	.0840			9 UNCH 150 UNCH
5800 5900						0.52 - 0.13 0.64 - 0.15	.1014			11 UNCH 2 UNCH
6000 6200						0.78 - 0.19 1.16 - 0.25 1.39 - 0.30	.2001			1136 UNCH 140 UNCH
6300 6350						1.39 - 0.30 1.52 - 0.32 1.81 - 0.36	.2319 .2490 .2854			200 UNCH 11 UNCH 11 UNCH
6450 6500						1.97 - 0.38	.3045			575 UNCH 20681
TOTAL NOV18										20081
3000 3500						0.01 UNCH 0.01 UNCH	.0000 .0011			261 UNCH 1055 UNCH
4000 4100						0.03 UNCH 0.03 - 0.01	.0056			2751 UNCH 9 UNCH
4200 4250						0.04 - 0.01 0.05 UNCH	.0077			337 UNCH 9 UNCH
4300 4350						0.05 - 0.01 0.06 UNCH	.0095 .0112			1 UNCH 60 UNCH
4400 4500						0.06 - 0.01 0.08 UNCH	.0114 .0149			153 UNCH 3625 UNCH
4600 4700						$ \begin{array}{rrrr} 0.09 & - & 0.01 \\ 0.11 & - & 0.01 \end{array} $.0170 .0207			225 UNCH 550 UNCH
4750 4800						0.12 - 0.02 0.13 - 0.02	.0226 .0245			341 UNCH 241 UNCH
4810 4900						0.13 - 0.02 0.16 - 0.02	.0246 .0298			30 UNCH 11 UNCH
5000 5100						0.19 - 0.03 0.24 - 0.03	.0353			6689 UNCH 55 UNCH
5200 5300						0.29 - 0.05 0.35 - 0.06	.0520			132 UNCH 1 UNCH
5400 5450						0.43 - 0.07 0.47 - 0.08	.0743			130 UNCH 90 UNCH
5500 5600						0.52 - 0.08 0.63 - 0.10	.0880			1468 UNCH 200 UNCH
5700 5750						0.76 - 0.12 0.83 - 0.13	.1223			9 UNCH 150 UNCH
5800 5900						0.90 - 0.15 1.08 - 0.17	.1418			27 UNCH 2 UNCH
6000 6200						1.27 - 0.20 1.75 - 0.25	.1891			1133 UNCH 140 UNCH
6300 6350						2.03 - 0.28 2.18 - 0.30	.2760			200 UNCH 11 UNCH
6450 6500						2.51 - 0.34 2.69 - 0.35	.3258 .3433			11 UNCH 575 UNCH 20682
TOTAL DEC18										20062
3000 3500						0.01 UNCH 0.01 - 0.01	.0002 .0019			261 UNCH 1056 UNCH
4000 4100						0.04 - 0.02 0.06 - 0.01	.0072			2753 UNCH 9 UNCH
4200 4250						0.07 - 0.01 0.08 - 0.01	.0121			337 UNCH 9 UNCH
4300 4400						0.08 - 0.02 0.10 - 0.02	.0140			1 UNCH 153 UNCH
4500 4500 4600						0.10 - 0.02 0.13 - 0.02 0.15 - 0.03	.0219			3625 UNCH 225 UNCH
4700 4750						0.18 - 0.04 0.20 - 0.04	.0302			550 UNCH 341 UNCH
4800 4810						0.22 - 0.04 0.23 - 0.04	.0364 .0377			241 UNCH 31 UNCH
4900 5000						0.27 - 0.05 0.33 - 0.05	.0438 .0525			10 UNCH 6699 UNCH
5100						0.40 - 0.06	.0624			54 UNCH
THE IN	NEUKMATIO	N CONTAINED IN THE CO	IHIS KEPORT IS (COMPILED FOR THE CO	INVENTENCE OF THE	USER AND IS FURNISHED N THE BASIS FOR ANY CLA	VITHOUT RESPONS	TRIFILL EUR	UK ACCURACY OR (CONTENT. IT IS

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Side 24

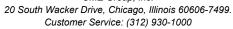
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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN REST
AO PUT DEC18		CRUDE OIL APO	OPTIONS						VOLUME				
5200 5300						0.48 - 0.07 0.57 - 0.09	.0735 .0858					132 1	UNCH UNCH
5400 5450						0.69 - 0.10 0.75 - 0.11	.1010 .1086					130 90	UNCH UNCH
5500 5600						0.81 - 0.12 0.96 - 0.13	.1164 .1344					1468 200	UNCH UNCH
5700 5750						$ \begin{array}{rrrr} 1.13 & - & 0.15 \\ 1.22 & - & 0.16 \end{array} $.1542 .1645					9 150	UNCH UNCH
5800 5900						1.32 - 0.16 1.53 - 0.18	.1756 .1985					178 2	UNCH
6000 6200						1.76 - 0.21 2.30 - 0.26	.2229 .2770					1149 140	UNCH UNCH
6300 6350						2.62 - 0.28 2.78 - 0.30	.3067					200 12	UNCH
6450 6500						3.14 - 0.33 3.33 - 0.34	.3533 .3695					12 575	UNCH UNCH
TOTAL JAN19												20803	
3000						0.01 UNCH 0.03 UNCH	.0016					1 90	UNCH UNCH
3500 3750 3800						0.05 UNCH 0.06 UNCH	.0079					150 7	UNCH
4000 4100						0.08 UNCH 0.10 UNCH	.0126					621 9	UNCH
4200 4250						0.12 - 0.01 0.13 - 0.01	.0185					3 2	UNCH
4300 4500						0.14 - 0.01 0.20 - 0.03	.0216					15 942	UNCH
4600 4700						0.24 - 0.04 0.29 - 0.04	.0361					30 72	UNCH
4750 4800						0.32 - 0.04 0.35 - 0.05	.0469					240 15	UNCH
4810 5000						0.36 - 0.05 0.51 - 0.06	.0520					31 1991	UNCH
5100 5200						0.60 - 0.08 0.72 - 0.08	.0821					30 330	UNCH
5300 5400						0.84 - 0.10 0.99 - 0.10	.1098 .1261					2 40	UNCH
5450 5500						1.07 - 0.11 1.15 - 0.12	.1346				130	45 2162 -	UNCH 30
5700 5800						1.53 - 0.15 1.75 - 0.16	.1821					28 31	UNCH
6000 6100						2.26 - 0.19 2.54 - 0.21	.2510				256	1030 + 150	256 UNCH
6200 6350						2.84 - 0.24 3.35 - 0.28	.3029					50 15	UNCH
6450 8640						3.73 - 0.30 19.39 - 0.97	.3753					15 31	UNCH
8750						20.42 - 0.98	.9128				386	31 8209 +	UNCH 226
TOTAL FEB19											300	0203 .	220
3000 3500						0.02 + 0.01 0.05 UNCH	.0029					1 90	UNCH UNCH
3750 3800						0.08 UNCH 0.09 UNCH	.0116					150 7	UNCH
4000 4100						0.13 UNCH 0.16 UNCH	.0184					618	UNCH
4200 4250						0.19 UNCH 0.20 - 0.01	.0263					3 2	UNCH
4300 4500						0.22 - 0.01 0.31 - 0.03	.0304					15 935	UNCH
4600 4700						0.37 - 0.03 0.44 - 0.04	.0491 .0574					30 66	UNCH UNCH
4750 4800						0.48 - 0.04 0.52 - 0.04	.0620 .0667					240 15	UNCH UNCH
4810 5000						0.53 - 0.04 0.73 - 0.05	.0678 .0896					28 1991	UNCH UNCH
5100 5200						0.85 - 0.06 0.99 - 0.07	.1023 .1166					30 330	UNCH UNCH
5300 5400						1.15 - 0.08 1.33 - 0.08	.1323 .1493					3 40	UNCH UNCH
5450 5500						1.42 - 0.09 1.52 - 0.09	.1579 .1671				130	45 2149 -	UNCH 30
5700 5800						1.95 - 0.12 2.20 - 0.12	.2060 .2275					28 24	UNCH UNCH
6000 6100						2.75 - 0.16 3.06 - 0.17	.2734 .2980				244	1018 + 150	244 UNCH
6200 6350						3.38 - 0.20 3.91 - 0.24	.3236 .3640					50 24	UNCH UNCH
6450 8640						4.29 - 0.27 19.92 - 0.87	.3922 .8946					40 28	UNCH UNCH
8750 TOTAL						20.94 - 0.88	.9053				374	28 8187 +	UNCH 214
MAR19						0.03 UNCH	.0040					1	UNCU
3000 3500 3750						0.03 UNCH 0.08 UNCH 0.12 - 0.01	.0106					90 150	UNCH UNCH UNCH
3750 3800 4000						0.12 - 0.01 0.13 - 0.01 0.19 - 0.01	.0172					7 621	UNCH
4000 4100 4200						0.19 - 0.01 0.23 - 0.01 0.27 - 0.01	.0246					9	UNCH
4200 4250 4300						0.27 - 0.01 0.29 - 0.02 0.31 - 0.03	.0366					2 15	UNCH
4300 4500 4600						0.31 - 0.03 0.44 - 0.03 0.52 - 0.03	.0535					942 30	UNCH
4700 4750						0.61 - 0.04 0.66 - 0.04	.0716					72 240	UNCH
4800 4810						0.71 - 0.05 0.72 - 0.05	.0819					15 31	UNCH
5000 5100						0.97 - 0.05 1.12 - 0.06	.1069					1990 30	UNCH
5200 5300						1.29 - 0.06 1.47 - 0.06	.1361					330 2	UNCH
5400 5450						1.67 - 0.07 1.77 - 0.07	.1691					40 45	UNCH
5500 5700						1.88 - 0.08 2.37 - 0.08	.1869				130	2180 - 28	30 UNCH
5800 6000						2.64 - 0.09 3.23 - 0.12	.2472				 256	29 1030 +	UNCH 256
6100 6200						3.55 - 0.14 3.89 - 0.16	.3156					150 50	UNCH
6350 6450						4.44 - 0.19 4.82 - 0.23	.3790					29 45	UNCH
8640 8750						20.40 - 0.80 21.41 - 0.82	.8891 .8994					31 31	UNCH
TOTAL							.0001				386	8268 +	226
APR19 3000						0.04 UNCH	.0051					1	UNCH
3500 3500 3750						0.11 UNCH 0.16 - 0.02	.0137					90 150	UNCH
3800 4000						0.18 - 0.01 0.25 - 0.03	.0221					7 615	UNCH
4100						0.29 - 0.04	.0348					9	UNCH
						SER AND IS FURNISHED WITHE BASIS FOR ANY CLAIM					CY OR CO	ONTENT. IT	IS

ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.
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FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
AO PUT APR19		CRUDE OIL APO	OPTIONS							
4250 4300						0.37 - 0.05 0.40 - 0.05	.0436			2 UNCH 15 UNCH
4500 4600						0.56 - 0.06 0.65 - 0.07	.0632			728 UNCH 30 UNCH
4700						0.76 - 0.07 0.82 - 0.07	.0827		10	70 + 10 240 UNCH
4750 4800						0.88 - 0.08	.0940			15 UNCH
4810 5000						1.17 - 0.10	.1199			30 UNCH 1985 UNCH
5100 5200						1.35 - 0.09 1.53 - 0.10	.1349			30 UNCH 330 UNCH
5300 5400						1.73 - 0.11 1.95 - 0.11	.1663 .1837			2 UNCH 40 UNCH
5450 5500						2.06 - 0.11 2.18 - 0.11	.1924 .2017		130	45 UNCH 2187 - 30
5700 6000						2.69 - 0.14 3.59 - 0.18	.2403		132	28 UNCH 1056 + 132
6200 6450						4.28 - 0.21 5.25 - 0.26	.3523 .4162			50 UNCH 16 UNCH
8640 8750						20.81 - 0.75 21.81 - 0.77	.8827 .8937			30 UNCH 30 UNCH
TOTAL						21.01 0.77	.0337		10 262	7831 + 112
MAY19 3000						0.05 UNCH	.0062			1 UNCH
3500 3750						0.13 - 0.02 0.21 - 0.02	.0157			90 UNCH 150 UNCH
3800						0.23 - 0.02 0.31 - 0.04	.0266			7 UNCH 616 UNCH
4000 4100						0.37 - 0.05	.0416			9 UNCH
4250 4300						0.51 - 0.06	.0556			15 UNCH
4500 4600						0.69 - 0.07 0.80 - 0.08	.0728			648 UNCH 30 UNCH
4700 4750						0.93 - 0.09 1.00 - 0.09	.1002		10	72 + 10 240 UNCH
4800 4810						1.07 - 0.10 1.09 - 0.09	.1062 .1078			15 UNCH 31 UNCH
5000 5100						1.40 - 0.11 1.59 - 0.11	.1333 .1482			1985 UNCH 30 UNCH
5200 5300						1.79 - 0.12 2.01 - 0.12	.1638			330 UNCH 2 UNCH
5400 5450						2.24 - 0.13 2.36 - 0.13	.1975			40 UNCH 45 UNCH
5500 5700						2.48 - 0.14 3.02 - 0.17	.2153		130 	2204 - 30 28 UNCH
6000						3.96 - 0.21	.3175		132	1056 + 132
6200 8640						21.23 - 0.70	.8777			31 UNCH
8750 TOTAL						22.23 - 0.72	.8883		10 262	31 UNCH 7758 + 112
JUN19						0.07	0000			d
3000 3500						0.07 UNCH 0.18 - 0.01	.0082 .0201			1 UNCH 90 UNCH
3750 3800						0.27 - 0.02 0.29 - 0.02	.0296 .0317			150 UNCH 7 UNCH
4000 4100						0.40 - 0.03 0.47 - 0.03	.0426			615 UNCH 9 UNCH
4250 4300						0.59 - 0.04 0.63 - 0.05	.0605			2 UNCH 15 UNCH
4500 4600						0.85 - 0.06 0.98 - 0.07	.0834			645 UNCH 30 UNCH
4700 4750						1.12 - 0.08 1.20 - 0.08	.1058		10	70 + 10 240 UNCH
4800						1.28 - 0.08	.1185			15 UNCH
4810 5000						1.65 - 0.09	.1465			1985 UNCH
5100 5200						2.07 - 0.10	.1613			30 UNCH 330 UNCH
5300 5400						2.30 - 0.10 2.54 - 0.12	.1936 .2106			2 UNCH 40 UNCH
5500 5700						2.80 - 0.13 3.37 - 0.14	.2285 .2666		130 	2201 - 30 28 UNCH
6000 6200						4.32 - 0.20 5.07 - 0.21	.3290 .3746		132 	1056 + 132 50 UNCH
8640 8750						21.66 - 0.66 22.66 - 0.67	.8730 .8833			30 UNCH 30 UNCH
TOTAL									10 262	7701 + 112
JUL19 3000						0.08 - 0.01	.0092			1 UNCH
3500 3750						0.21 - 0.02 0.32 - 0.02	.0227			90 UNCH 150 UNCH
3800 4000						0.35 - 0.02 0.48 - 0.03	.0364			5 UNCH 583 UNCH
4100 4300						0.56 - 0.03 0.75 - 0.05	.0557			9 UNCH 15 UNCH
4400 4500						0.87 - 0.05 1.00 - 0.05	.0821			45 UNCH 930 UNCH
4600 4700						1.15 - 0.06 1.31 - 0.06	.1042			70 UNCH 62 UNCH
4750						1.31 - 0.06 1.39 - 0.07 1.48 - 0.07	.1226			100 UNCH 125 UNCH
4800 4810						1.50 - 0.07	.1306			31 UNCH
5000 5100						1.87 - 0.08 2.09 - 0.08	.1725			1961 UNCH 30 UNCH
5200 5300						2.32 - 0.09 2.56 - 0.10	.1883			310 UNCH 113 UNCH
5400 5500						2.82 - 0.11 3.10 - 0.11	.2218		230	40 UNCH 2142 - 130
5600 5700						3.38 - 0.12 3.67 - 0.15	.2582			40 UNCH 25 UNCH
6000 6200						4.65 - 0.20 5.42 - 0.21	.3389		132 	1001 + 132 50 UNCH
6500 8640						6.72 NEW 22.04 - 0.63	.4554 .8684		100 	100 + 100 31 UNCH
8750						23.03 - 0.64	.8794		462	31 UNCH 8090 + 102
TOTAL AUG19									702	5050 1 102
3000 3500						0.11 UNCH 0.26 - 0.01	.0118 .0267			1 UNCH 90 UNCH
3750						0.39 - 0.01	.0388			150 UNCH
3800 4000						0.58 - 0.01	.0554			583 UNCH
4100 4300						0.67 - 0.02 0.89 - 0.03	.0630			9 UNCH 15 UNCH
4400 4500						1.02 - 0.03 1.17 - 0.03	.0909 .1021			45 UNCH 930 UNCH
4600 4700						1.33 - 0.04 1.50 - 0.05	.1139			70 UNCH 62 UNCH
4750 4800						1.60 - 0.04 1.69 - 0.05	.1330 .1395			100 UNCH 125 UNCH
4810 5000						1.71 - 0.05 2.11 - 0.06	.1408			31 UNCH 1961 UNCH
5100						2.34 - 0.06	.1831			30 UNCH
THE IN	FORMATIO	N CONTAINED IN T	THIS REPORT IS	COMPILED FOR THE CO	NVENIENCE OF THE	USER AND IS FURNISHED N THE BASIS FOR ANY CLA	WITHOUT RESPONS	IBILITY FOR	OR ACCURACY OR C	ONTENT. IT IS

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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXE DELTA CIS		PNT LUME INT	OPEN TEREST
AO PUT	г	CRUDE OIL APO	OPTIONS					VOLUME		
AUG19 5200						2.58 - 0.07 2.84 - 0.07	.1989		310 113	UNCH UNCH
5300 5400 5500						3.11 - 0.08 3.39 - 0.09	.2325		40 230 2147 -	UNCH - 130
5600 5700						3.68 - 0.11 3.98 - 0.13	.2683		 40 25	UNCH
6000 6200						4.99 - 0.18 5.77 - 0.19	.3480		 132 1001 +	
6500 8640						7.09 NEW 22.42 - 0.58	.4622 .8640		 100 100 4	
8750						23.40 - 0.59	.8746		31 462 8095 +	UNCH
TOTAL SEP19									.02	. 102
3000 3500						$ \begin{array}{rrrr} 0.12 & - & 0.01 \\ 0.30 & - & 0.01 \end{array} $.0127		 1 90	UNCH UNCH
3750 3800						$ \begin{array}{rrrrr} 0.45 & - & 0.01 \\ 0.48 & - & 0.02 \end{array} $.0430		 150 5	UNCH UNCH
4000 4100						0.65 - 0.03 0.76 - 0.02	.0600		 583 9	UNCH
4300 4400						1.00 - 0.04 1.15 - 0.03	.0872		 15 45	UNCH
4500 4600						1.30 - 0.05 1.48 - 0.05	.1090		 928 70	UNCH
4700 4750						1.66 - 0.06 1.76 - 0.06	.1339		 60 100	UNCH
4800 4810						1.86 - 0.06 1.88 - 0.06	.1473		 125 30	UNCH
5000 5100						2.30 - 0.07 2.54 - 0.07	.1759		 1961 30	UNCH
5200 5300						2.80 - 0.07 3.06 - 0.09	.2071		 310 112 40	UNCH
5400 5500						3.34 - 0.10 3.63 - 0.11	.2579		 230 2142 -	UNCH - 130
5600 5700						3.93 - 0.12 4.24 - 0.14	.2947		 40 25	UNCH UNCH
6000 6200						5.28 - 0.18 6.07 - 0.20 7.41 NEW	.3549 .3982 .4668		 132 1001 + 50 100 100 +	UNCH
6500 8640 8750						22.73 - 0.54 23.71 - 0.55	.8579		 30 30	+ 100 UNCH UNCH
8750 TOTAL		-			-	23./1 - 0.33	.0003		 462 8082	
OCT19 3000						0.13 - 0.02	.0136		 1	UNCH
3500 3750						0.34 - 0.01 0.51 - 0.01	.0327		90 150	UNCH
3800 4000						0.55 - 0.01 0.74 - 0.01	.0504		5 583	UNCH
4100 4300						0.85 - 0.02 1.12 - 0.03	.0740		9 15	UNCH
4400 4500						1.27 - 0.04 1.44 - 0.04	.1044		45 1256	UNCH
4600 4700						1.63 - 0.04 1.82 - 0.05	.1285		30 62	UNCH
4750 4800						1.93 - 0.05 2.03 - 0.06	.1481		100 125	UNCH
4810 5000						2.06 - 0.05 2.49 - 0.07	.1564		31 2056	UNCH
5100 5200						2.75 - 0.06 3.01 - 0.07	.1990		30 310	UNCH UNCH
5300 5400						3.28 - 0.09 3.57 - 0.09	.2310		112 40	UNCH UNCH
5500 5700						3.86 - 0.11 4.49 - 0.13	.2653		 230 2626 - 25	- 130 UNCH
6000 6200						5.55 - 0.17 6.36 - 0.18	.3615		 132 1001 + 50	+ 132 UNCH
6500 8640						7.71 NEW 23.04 - 0.50	.4717		 100 100 + 31	UNCH
8750 TOTAL						24.01 - 0.50	.8638		 31 462 8914 -	UNCH + 102
NOV19						0.15	0.1.50			
3000 3500						0.15 - 0.02 0.38 - 0.01	.0152		 1 90	UNCH
3750 3800						0.56 - 0.02 0.61 - 0.02	.0504		 150 5	UNCH
4000 4100						0.82 - 0.02 0.94 - 0.03	.0702		 583 9	UNCH
4300 4400						1.23 - 0.03 1.40 - 0.03	.0995		 15 45	UNCH
4500 4600						1.57 - 0.05 1.77 - 0.05	.1223		 1253 30	UNCH
4700 4750						1.97 - 0.06 2.08 - 0.06	.1478		 60 100 125	UNCH
4800 4810						2.19 - 0.06 2.22 - 0.06	.1631		 30	UNCH
5000 5100						2.68 - 0.06 2.94 - 0.07 3.21 - 0.08	.1907 .2060 .2217		 2056 30 310	UNCH UNCH UNCH
5200 5300						3.21 - 0.08 3.48 - 0.10 3.77 - 0.11	.2378		 310 112 40	UNCH UNCH UNCH
5400 5500 5700						4.07 - 0.11 4.07 - 0.12 4.72 - 0.13	.2719		 230 2617 - 25	- 130 UNCH
6000 6200						5.80 - 0.17 6.62 - 0.18	.3676		 132 1001 +	
6500 8640						8.00 NEW 23.33 - 0.47	.4762		 100 100 +	
8750						24.30 - 0.47	.8604		30 462 8897 +	UNCH
TOTAL DEC19									402 8897 4	F 102
3000 3500						0.17 - 0.02 0.42 - 0.01	.0168		1 90	UNCH UNCH
3750 3800						0.62 - 0.02 0.67 - 0.02	.0543		 150 5	UNCH
4000 4100						0.89 - 0.02 1.02 - 0.03	.0745		 583 9	UNCH
4205 4300						1.17 NEW 1.32 - 0.04	.1045		 125 125 4 15	
4400 4500						1.49 - 0.05 1.68 - 0.05	.1158		45 1268	UNCH
4600 4700						1.88 - 0.05 2.09 - 0.06	.1406		30 62	UNCH
4750 4800						2.20 - 0.06 2.31 - 0.07	.1604		 100 125	UNCH
4810 5000						2.34 - 0.06 2.80 - 0.08	.1689		31 2056	UNCH
5100 5200						3.07 - 0.08 3.34 - 0.10	.2120		 30 310	UNCH
5300 5400						3.63 - 0.10 3.93 - 0.11	.2442		112 40	UNCH
5500 5700						4.24 - 0.12 4.89 - 0.14	.2786 .3151		230 2631 - 25	- 130 UNCH
6000 6200						6.00 - 0.17 6.82 - 0.20	.3745		132 1001 + 50	+ 132 UNCH
6500						8.23 NEW	.4830		 100 100 +	+ 100
						SER AND IS FURNISHED N THE BASIS FOR ANY CLA			OR CONTENT. I	T IS





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THE P	GLOBEX	OPEN OUTCRY	GLOBEX	S SETTLEMENT PRI	OPEN OUTCRY	SETT.PRICE	EXER	OPEN	GLOBEX®	PNT		OPEN
AO PU	OPEN T	OPEN RANGE CRUDE OIL APO	HIGH/LOW O OPTIONS	HIGH/LOW	CLOSE RANGE	& PT.CHGE.	DELTA CISES	OUTCRY VOLUME	VOLUME VO	DLUME	INTE	KESI
DEC19 8640						23.64 - 0.44 24.60 - 0.45	.8489				31	UNCH
8750 TOTAL						24.60 - 0.45	.8595			587	31 9056 +	UNCH 227
JAN20 3000						0.19 - 0.02	.0184				1	UNCH
3800 4000						$\begin{array}{cccc} 0.72 & - & 0.02 \\ 0.96 & - & 0.03 \\ 1.10 & - & 0.03 \end{array}$.0613 .0786				5 60	UNCH
4100 4200						1.10 - 0.03 1.25 - 0.03 1.79 - 0.05	.0883 .0986 .1334				8 75 115	UNCH UNCH UNCH
4500 5000 5100						2.94 - 0.08 3.21 - 0.09	.2024				192 31	UNCH
5200 5500						3.49 - 0.10 4.40 - 0.13	.2338				31 20	UNCH
8640 8750						23.93 - 0.40 24.89 - 0.41	.8481 .8577				31 31	UNCH UNCH
TOTAL											600	
FEB20 3000						0.20 - 0.03 0.77 - 0.03	.0193 .0644				1 5	UNCH UNCH
3800 4000 4100						1.02 - 0.04 1.17 - 0.03	.0821				60 8	UNCH
4200 4500						1.32 - 0.05 1.88 - 0.06	.1024				75 115	UNCH
5000 5100						3.07 - 0.09 3.34 - 0.10	.2077 .2231				192 29	UNCH UNCH
5200 5500						3.63 - 0.10 4.55 - 0.13	.2392 .2902				29 20	UNCH UNCH
8640 8750						24.18 - 0.37 25.15 - 0.36	.8464 .8560				29 29	UNCH UNCH
TOTAL MAR20											592	
3000 3800						0.22 - 0.02 0.83 - 0.02	.0208				1 5	UNCH UNCH
4000 4100						1.08 - 0.04 1.24 - 0.03	.0856				60 8	UNCH
4200 4500						1.40 - 0.04 1.97 - 0.06	.1065 .1421				75 115	UNCH UNCH
5000 5100						3.18 - 0.09 3.46 - 0.10	.2124				192 31	UNCH
5200 5500						3.75 - 0.11 4.68 - 0.13 24.41 - 0.33	.2441 .2953 .8455				31 20 31	UNCH UNCH UNCH
8640 8750						25.39 - 0.32	.8542				31 600	UNCH
TOTAL APR20											000	
3000 3800						0.24 - 0.02 0.88 - 0.03	.0223				1 5	UNCH UNCH
4000 4100						1.16 - 0.03 1.31 - 0.04	.0897				60 8	UNCH
4200 4500						1.48 - 0.05 2.07 - 0.06 3.30 - 0.10	.1105 .1466 .2171				75 115 196	UNCH UNCH UNCH
5000 5100 5200						3.30 - 0.10 3.59 - 0.11 3.88 - 0.12	.2329				30 30	UNCH
5500 8640						4.82 - 0.14 24.64 - 0.30	.3003				20 30	UNCH
8750 TOTAL						25.61 - 0.30	.8524				30 600	UNCH
MAY20						0.26 0.01	.0237				1	IINGII
3000 3800						$\begin{array}{cccc} 0.26 & - & 0.01 \\ 0.93 & - & 0.03 \\ 1.21 & - & 0.04 \end{array}$.0738				1 5 60	UNCH UNCH UNCH
4000 4100 4200						1.38 - 0.04 1.55 - 0.05	.1034				8 75	UNCH
4500 5000						2.16 - 0.06 3.41 - 0.10	.1508				115 203	UNCH
5100 5200						3.70 - 0.11 4.00 - 0.11	.2375 .2537				31 31	UNCH UNCH
5500 8640						4.96 - 0.13 24.88 - 0.27	.3053				20 31	UNCH
8750 TOTAL						25.84 - 0.27	.8514				31 611	UNCH
JUN20 3000						0.28 - 0.01	.0252				1	UNCH
3800 4000						0.99 - 0.03 1.29 - 0.03	.0772				5 60	UNCH
4200 4500						1.64 - 0.04 2.26 - 0.05	.1184 .1552				75 115	UNCH UNCH
5000 5100						3.53 - 0.09 3.83 - 0.09	.2264				202 30	UNCH
5200 5500						4.13 - 0.09 5.10 - 0.11 25.10 - 0.24	.2585 .3102 .8413				30 20	UNCH
8640 8750						25.10 - 0.24 26.07 - 0.24	.8413 .8497				30 30 598	UNCH
TOTAL JUL20												
3000 4000						0.30 - 0.01 1.35 - 0.04	.0266				1 60	UNCH
4200 4500						1.71 - 0.04 2.34 - 0.06 3.64 - 0.08	.1219				75 100 106	UNCH
5000 5100 5200						3.64 - 0.08 3.94 - 0.09 4.24 - 0.10	.2308 .2467 .2629				196 31 31	UNCH UNCH UNCH
5500 8640						5.23 - 0.11 25.32 - 0.23	.3149				20 31	UNCH
8750 TOTAL						26.29 - 0.23	.8480				31 576	UNCH
AUG20						0.22	0200					
3000 4000						0.32 - 0.01 1.42 - 0.02 1.79 - 0.03	.0280				1 60 75	UNCH
4200 4500 5000						1.79 - 0.03 2.43 - 0.04 3.75 - 0.06	.1256 .1628 .2350				75 100 190	UNCH UNCH UNCH
5100 5100 5200						4.05 - 0.07 4.36 - 0.07	.2509				31 31	UNCH
5500 8640						5.36 - 0.09 25.53 - 0.20	.3193 .8381				20 31	UNCH UNCH
8750 TOTAL						26.49 - 0.20	.8463				31 570	UNCH
SEP20						0.34 - 0.01	.0294				1	UNCH
3000 4000 4200						1.48 - 0.02 1.86 - 0.03	.1062				60 75	UNCH UNCH UNCH
4500 5000						2.52 - 0.03 3.86 - 0.05	.1664 .2388				100 190	UNCH
5100 5200						4.16 - 0.05 4.47 - 0.06	.2547 .2710				30 30	UNCH UNCH
5500	NEORMATTO	N CONTAINED IN	THIS REPORT IS (COMPTLED FOR THE CO	NVENTENCE OF THE L	5.49 - 0.07 USER AND IS FURNISHED W	.3232			OR CONTE	20 NT TT	UNCH
				RRORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLAI				OK CONTE	wi. Il	13

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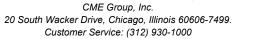
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									OUTCRY	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN EREST
AO PUT SEP20		CRUDE OIL APO	OPTIONS										
8640 8750						25.70 - 26.67 -	0.18 0.17	.8364 .8439				30 30	UNCH UNCH
TOTAL OCT20												566	
3000 4000						0.36 1.54 -	UNCH 0.01	.0307 .1091				1 60	UNCH UNCH
4200 4500						1.93 - 2.60 -	0.01 0.02	.1319 .1697				75 100	UNCH UNCH
5000 5100						3.95 - 4.26 -	0.03	.2422				190 31	UNCH UNCH
5200 5500						4.57 - 5.61 -	0.04	.2745				31 20	UNCH
8640 8750						25.87 - 26.84 -	0.14 0.14	.8347 .8421				31 31 570	UNCH UNCH
TOTAL NOV20												370	
3000 4000						0.38 - 1.60 -	0.01 0.01	.0320 .1117				1 60	UNCH UNCH
4200 4500						1.99 - 2.68 -	0.02 0.02	.1344 .1726				75 100	UNCH UNCH
5000 5100						4.06 - 4.38 -	0.03	.2453				190 30	UNCH
5200 5500						4.70 - 5.75 -	0.03	.2777 .3298 .8337				30 20	UNCH
8640 8750						25.97 - 26.93 -	0.14 0.13	.8337 .8417				30 30 566	UNCH UNCH
TOTAL DEC20												300	
3000 4000						0.42 + 1.67 -	0.01 0.01	.0344				1 60	UNCH UNCH
4200 4500						2.08 2.79 -	UNCH 0.01	.1382				75 100	UNCH
5000 5100						4.24 - 4.57 -	0.02	.2502				190 31	UNCH
5200 5500 8640						4.91 - 5.97 - 26.06 -	0.01 0.02 0.16	.2826 .3343 .8395				31 20 31	UNCH UNCH UNCH
8750						27.01 -	0.16	.8483				31 570	UNCH
TOTAL JAN21													
4000 5000						1.75 4.35 -	UNCH 0.01	.1185 .2541				61 185	UNCH UNCH
TOTAL FEB21												246	
4000 5000						1.81 4.44 -	UNCH 0.01	.1212				61 185	UNCH UNCH
TOTAL												246	
MAR21 4000						1.87	UNCH	.1239				61	UNCH
5000 TOTAL						4.53	UNCH	.2606				185 246	UNCH
APR21 4000						1.94 +	0.01	.1269				61	UNCH
5000						4.63 +	0.01	.2641				185 246	UNCH
TOTAL MAY21													
4000 5000						2.00 + 4.71 +	$0.01 \\ 0.01$.1294 .2668				61 185	UNCH UNCH
TOTAL JUN21												246	
4000 5000						2.06 4.78	UNCH UNCH	.1319				61 185	UNCH UNCH
TOTAL												246	
JUL21 4000						2.13 + 4.87	0.01	.1349				1 125	UNCH
5000 TOTAL						4.07	UNCH	.2729				126	UNCH
AUG21 4000						2.18 +	0.01	.1369				1	UNCH
5000 TOTAL						4.94 +	0.01	.2753				125 126	UNCH
SEP21						2 24	IINGII	1202				1	UNCU
4000 5000						2.24 5.01	UNCH UNCH	.1393 .2778				1 125 126	UNCH UNCH
TOTAL OCT21												120	
4000 5000						2.31 + 5.09 +	0.02	.1418				1 125	UNCH UNCH
TOTAL												126	
NOV21 4000 5000						2.35 + 5.15 +	0.01 0.01	.1436 .2827				1 125	UNCH UNCH
TOTAL						3.13 +	0.01	.2027				126	ONCIT
DEC21 4000						2.41 +	0.01	.1461				1	UNCH
5000 TOTAL						5.23 +	0.02	.2856				125 126	UNCH
6F PUT		CRUDE OIL OPT	ION ON CALENDAR ST	TRP									
JAN19 4500						0.10 - 1.01 -	0.01	.0203				85 85	UNCH
5500 TOTAL						1.01 -	0.13	.1523				85 170	UNCH
L01 CA	LL	CRUDE OIL OPT	IONS										
JUL18 6500						7.77 + 7.27 +	2.18 2.16	.9962 .9936				1 1	UNCH UNCH
6550 6600 6650						6.78 + 6.29 +	2.14 2.11	.9877				7 6	UNCH
6700 6750						5.80 + 5.32 +	2.08	.9752 .9634				18 1	UNCH
6800 6850	4.22 4.11	4.22 4.11	#4.22/4.22 #4.11/4.11	#4.22/4.22 #4.11/4.11		4.84 + 4.37 +	1.97 1.88	.9510 .9333		2 1		9 5	UNCH UNCH
6950 7000	3.22	3.22 2.27	#3.22/3.22 #3.20/2.27	#3.22/3.22 #3.20/2.27		3.47 + 3.04 +	1.67 1.54	.8785 .8419		1 15		4 118 +	UNCH 2
7050 7100 7150	2.66 1.79 1.38	2.66 1.79 1.38	#2.75/2.25A #2.43B/1.69A #2.08B/1.38	#2.75/2.25A #2.43B/1.69A #2.08B/1.38		2.63 + 2.25 + 1.91 +	1.40 1.26 1.12	.7975 .7437 .6810		13 7 11		12 10 - 11 +	UNCH 2 9
THE IN	FORMATIO	N CONTAINED IN T	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE US	SER AND IS FUR	NISHED W	ITHOUT RESPONS	IBILITY F	OR ACCURA			

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THE NOMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	Ε.					
GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
LO1 CALL JUL18 7200 0.93 7250 0.95 7300 1.04 7350 0.76 7400 7450 0.17 7550 7600 0.12 7700 0.12 7700 0.12 7750 0.06 7850 0.11 8000 0.07 8250 0.03	0.93 0.95 1.04 0.76 0.64 0.17 0.12 0.12 0.06 0.11 0.07	#1.77B/0.85A #1.49B/0.95 #1.27B/0.86A #1.05B/0.71A #0.87B/ #0.71B/0.44A #0.58/0.17 #0.48B/ #0.40B/0.12 #0.27B/*0.12 #0.27B/*0.12 #0.23B/0.06 #0.11/*0.10A #0.09/*0.06A	#1.77B/0.85A #1.49B/0.95 #1.27B/0.86A #1.05B/0.71A #0.87B/ #0.71B/0.44A #0.58/0.17 #0.40B/0.12 #0.27B/*0.12 #0.23B/0.06 #0.11/*0.10A #0.09/*0.06A #0.03/*0.03		1.60 + 0.97 1.32 + 0.83 1.06 + 0.68 0.84 + 0.55 0.67 + 0.45 0.54 + 0.37 0.44 + 0.31 0.36 + 0.26 0.29 + 0.21 0.19 NEW 0.15 + 0.11 0.10 NEW 0.06 + 0.05 0.02	.614054444734402728041922157008300830031603160310		28 13 112 1 54 106 9 67 68 68 80 595	31 - 1 17 + 11 79 + 55 1 UNCH 1 UNCH 56 + 53 50 + 18 4 UNCH 17 + 67 2 UNCH 6 + 6 77 + 67 72 + 72 683 + 364
LO1 PUT JUL18 5250 5500 55500 55500 55850 58900 6100 6150 6200 6350 6300 0.01 6350 6400 0.03 6550 6600 0.03 6550 6600 0.03 6550 0.03 6550 0.03 6550 0.03 6550 0.03 6550 1.03 6750 0.08 6800 0.18 6850 0.33 6900 0.20 7000 0.90 7100 0.80 7150 1.13 7200 0.84 7250 0.84 7250 1.13 7200 0.84 7250 0.84	CRUDE OIL OPT				0.01 UNCH 0.01 - 0.01 0.01 - 0.02 0.01 - 0.03 0.01 - 0.04 0.01 - 0.05 0.01 - 0.05 0.01 - 0.05 0.01 - 0.05 0.01 - 0.08 0.02 - 0.09 0.03 - 0.12 0.04 - 0.16 0.06 - 0.20 0.08 - 0.27 0.11 - 0.35 0.15 NEW 0.28 - 0.69 0.37 - 0.83 0.49 - 0.97 0.65 NEW 0.84 NEW 1.06 NEW				10 UNCH 1 UNCH 20 UNCH 8 UNCH 21 UNCH 21 UNCH 21 UNCH 21 UNCH 21 UNCH 21 UNCH 22 UNCH 20 UNCH 20 UNCH 21 + 2 5 UNCH 25 UNCH 26 UNCH 27 + 2 7 + 6 13 UNCH 28 UNCH 29 UNCH 204 + 2 1 UNCH 204 + 2 1 UNCH 205 UNCH 207 + 73 3 - 4 102 UNCH 207 + 73 3 - 1 1 UNCH 207 + 2 207 + 5 1 + 1 2 + 2 20 + 2 20 + 2 20 + 20 50 + 50 820 + 246
6500 6850 7050 2.15 7100 7150 7250 1.02 7300 0.78 7400 1.14 7450 7800 TOTAL	2.15 1.02 0.78 1.14	#5.75B/ #3.19B/ #3.08B/*2.15 #2.73B/ #2.41B/ #2.12B/ #1.85B/1.00A #1.61B/*0.78 #1.20/0.92 	#5.75B/ #3.19B/ #3.08B/*2.15 #2.73B/ #2.41B/ #2.12B/ #1.85B/1.00A #1.61B/*0.78 #1.20/0.92 #0.35B/		7.89 + 2.15 4.58 + 1.80 3.33 + 1.52 2.95 NEW 2.59 + 1.29 2.26 + 1.17 1.95 + 1.05 1.67 + 0.93 1.42 NEW 1.02 + 0.62 0.86 NEW 0.27 + 0.20	.9489 .8634 .7717 .7321 .68407 .5904 .5379 .4846 .3819 .3247		9 20 31 25 2115	1 UNCH 9 UNCH 1 UNCH 9 + 9 23 - 9 52 UNCH 30 UNCH 7 + 4 6 + 6 20 UNCH 4 + 4 3 UNCH 165 + 14
LO2 PUT JUL18 5550 5850 5950 0.03 6000 6200 6300 6500 6500 6750 6750 6800 6900 0.43 7000 TOTAL	CRUDE OIL OPT 0.03	0.03/*0.03 /*0.25A /*0.25A #0.43/*0.35A /*0.54A	 0.03/*0.03 /*0.25A /*0.25A #0.43/*0.35A /*0.54A		0.01 UNCH 0.02 - 0.02 0.03 - 0.03 0.03 - 0.03 0.06 - 0.05 0.08 - 0.06 0.11 - 0.06 0.13 - 0.08 0.15 - 0.10 0.20 - 0.22 0.23 - 0.28 0.27 - 0.35 0.39 NEW 0.57 - 0.71	.00320070010501090220029805100593098411571632	 	6 3 100 9 100	20 UNCH 20 UNCH 1 - 6 3 UNCH 2 UNCH 19 UNCH 19 UNCH 2 UNCH 2 UNCH 4 UNCH 4 UNCH 103 + 103 4 UNCH 190 + 97
LO3 CALL JUL18 7300 0.88 7350 0.76 7400 0.66 TOTAL	O.88 0.76 0.66	#1.15B/*0.86A #1.00B/*0.74A #0.87B/*0.64	#1.15B/*0.86A #1.00B/*0.74A #0.87B/*0.64	====	0.96 NEW 0.81 NEW 0.68 NEW	.3479 .3057 .2666		23 23 46 92	23 + 23 23 + 23 46 + 46 92 + 92
LO3 PUT JUL18 6500 0.25 6750 0.51 6800 0.54 6850 0.76 7000 1.56 TOTAL	0.25 0.51 0.54 0.76 1.56	#0.25/*0.25 #0.53B/*0.51 #0.65B/*0.54 #0.79B/*0.76 #1.56/*1.17	#0.25/*0.25 #0.538/*0.51 #0.656/*0.54 #0.798/*0.76 #1.56/*1.17	 	0.18 NEW 0.47 NEW 0.57 NEW 0.68 NEW 1.14 NEW	.0763 .1812 .2128 .2468 .3698		1 15 2 23 23	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
LOS CALL JUN18 6400 6450 6500 6500 6600 4-55 6650 6750 6850 4-24 6900 2.85 6950 2.00 7000 1.14 7050 1.31 7100 0.86 7150 0.47 7200 0.38 7250 0.36 7300 0.25 7350 0.15 7400 0.10 7450 0.11 7500 0.06 7550 0.02	CRUDE OIL OPT 4.55 4.55 4.24 2.85 2.00 1.14 1.31 0.86 0.47 0.38 0.36 0.25 0.15 0.10 0.11 0.06 0.02	#4.68/4.55 #4.68/4.55 #4.24/4.24 #3.67/2.85 #3.30/2.00 #2.60/1.14 #1.668/1.27A #2.11/0.80A #1.5558/0.47 #1.338/0.31 #1.028/0.30A #0.798/0.21A #0.57/0.15 #0.418/0.10 #0.308/0.11 #0.22/0.06 #0.168/0.02	#4.68/4.55 #4.68/4.55 #4.24/4.24 #3.67/2.85 #3.30/2.00 #2.60/1.14 #1.668/1.27A #2.11/0.80A #1.558/0.47 #1.338/0.31 #1.028/0.30A #0.57/0.15 #0.418/0.10 #0.308/0.11 #0.22/0.06 #0.168/0.02			1.0000 1.0000 1.0000 1.9999 9998 9995 9988 9971 9923 9923 9923 9865 3793 9733 3846 8846 8846 8846 3114 2055 1306 0.8588 0.539		3 3 1 15 16 17 18 18 19 180 192 345 92 345 92 345 92 345 92 345 92 345 92 347 99	1 UNCH 2 UNCH 27 UNCH 1 UNCH 379 - 3 35 UNCH 5 - 1 42 - 2 47 - 1 167 - 8 88 - 13 248 - 27 400 - 12 188 - 75 343 + 9 220 + 29 397 + 306 235 + 150 201 + 86 172 - 110 37 + 22 55 + 44 86 + 63

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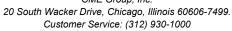
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(GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	PREVIOUS DAY'S S GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		.PRICE .CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTEI	OPEN REST
LO5 CAL JUN18 7600	L 0.04	CRUDE OIL OPT	TIONS #0.11B/0.03	#0.11B/0.03		0.06	+ 0.04	.0323			85		77 +	69
7650 7700 7750	0.01 0.02 0.02	0.01 0.02 0.02	#0.08B/0.01 #0.06B/0.02 #0.04B/0.02	#0.08B/0.01 #0.06B/0.02 #0.04B/0.02		0.04 0.03 0.02	+ 0.03 + 0.02 + 0.01	.0191 .0126 .0073			139 22 9		140 + 22 + 11 +	134 20 9
7800 7850 7900	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01	#0.04/*0.01 #0.02B/*0.01 #0.01/*0.01 #0.02/*0.01	#0.04/*0.01 #0.02B/*0.01 #0.01/*0.01 #0.02/*0.01		0.01 0.01 0.01 0.01	UNCH NEW NEW NEW	.0030 .0013 .0005 .0000			21 1 142 8		21 + 1 + 75 + 8 +	10 1 75 8
8000 TOTAL LO5 PUT		CRUDE OIL OPT		#0.02/ "0.01		0.01	NEW	.0000			2099		3754 +	783
JUN18 5450 5800						0.01 0.01	UNCH UNCH						15 25	UNCH
5850 5900 5950 6000						0.01 0.01 0.01 0.01	UNCH UNCH UNCH UNCH						2 5 8 62	UNCH UNCH UNCH UNCH
6050 6100 6150						0.01 0.01 0.01	UNCH UNCH UNCH						15 38 151	UNCH UNCH UNCH
6200 6250 6300						0.01 0.01 0.01	UNCH UNCH UNCH						144 109 195	UNCH UNCH
6350 6400 6450 6500	0.01 0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 0.01 0.01 0.01	UNCH UNCH UNCH UNCH	.0000			 8 3		162 133 49 - 117 -	UNCH UNCH 8
6550 6600 6650	0.01 0.02 0.02	0.01 0.02 0.02	0.01/*0.01 0.02/*0.01 0.02/*0.01	0.01/*0.01 0.02/*0.01 0.02/*0.01		0.01 0.01 0.01	- 0.01 - 0.03	.0000 .0001 .0004			5 38 21		36 197 - 80 -	UNCH 8 5
6700 6750 6800 6850	0.03 0.03 0.08 0.12	0.03 0.03 0.08 0.12	0.04/*0.01 0.03/*0.02 0.08/*0.02 0.12/*0.02	0.04/*0.01 0.03/*0.02 0.08/*0.02 0.12/*0.02		0.01 0.01 0.02 0.02	- 0.05 - 0.08 - 0.12 - 0.18	.0011 .0028 .0068 .0077			550 19 77 61		682 - 145 + 518 - 159 -	35 2 76 10
6900 6950 7000	0.15 0.22 0.54	0.15 0.22 0.54	0.16/*0.03 0.22/*0.04 0.54/*0.05	0.16/*0.03 0.22/*0.04 0.54/*0.05		0.03 0.04 0.06	- 0.27 - 0.39 - 0.54	.0134 .0206 .0356			168 101 313		120 - 100 + 110 -	5 68 4
7050 7100 7150	0.67 0.94 0.98	0.67 0.94 0.98	0.69/*0.08 0.94/*0.13 #1.00B/*0.24	0.69/*0.08 0.94/*0.13 #1.008/*0.24		0.10 0.16 0.26	- 0.73 - 0.94 NEW	.0663 .1154 .1939			63 262 451		39 + 228 + 143 +	11 221 143
7200 7250 7300	1.02 0.86 1.03	1.02 0.86 1.03	#1.02/*0.36A #1.00B/*0.53A #1.13B/*0.76A	#1.02/*0.36A #1.00B/*0.53A #1.13B/*0.76A		0.40 0.60 0.84	NEW NEW NEW	.2986 .4262 .5613			468 214 16 2838		394 + 126 + 16 + 4323 +	394 126 16 829
TOTAL														
CPF CAL OCT18 6000	-L	CSX COAL OPT	ON QTRLY FUT STRP			2.41	+ 0.12	.6558					10	UNCH
TOTAL													10	
AH CALL JUN18	-	DUBAI CRUDE O	DIL (PLATTS) APO											
5300 TOTAL AH PUT		DURAT CRUDE O	OIL (PLATTS) APO			20.578	+ 0.136	.9603					25 25	UNCH
JUN18 3565 TOTAL						0.001	UNCH	.0000					25 25	UNCH
DAP OFF JUN18 30000		EIA FLAT TAX	ON-HIGHWAY DIESEL	APO 		0.2528	UNCH	1.0000					6 6	UNCH
TOTAL JUL18 30000						0.2191	+ 0.0425	.8953					6	UNCH
TOTAL AUG18						0 2502	+ 0.0391	.7840					6	UNCH
30000 TOTAL SEP18													6	
30000 TOTAL OCT18						0.2801	+ 0.0364	.7447					6 6	UNCH
30000 TOTAL						0.3000	+ 0.0344	.7252					6 6	UNCH
NOV18 30000 TOTAL						0.3224	+ 0.0358	.6955					6 6	UNCH
DEC18 30000 TOTAL						0.3357	+ 0.0321	.6770					6 6	UNCH
LB CALL AUG18 23500		EURO HEATING	OIL 			0.0087	+ 0.0052	.1235					50 50	UNCH
TOTAL SEP18 23500						0.0280	+ 0.0113	.2363					50	UNCH
TOTAL OCT18								.2851					50 50	
23500 25500 TOTAL							+ 0.0134 + 0.0048	.1022					50 50 100	UNCH UNCH
NOV18 23100 23500						0.0613	+ 0.0171 + 0.0151	.3785					1 50	UNCH
25500 TOTAL DEC18						0.0250	+ 0.0074	.1610					50 101	UNCH
23100 23500 25500						0.0750	+ 0.0209 + 0.0191 + 0.0100	.4019 .3590 .1875					2 50 50	UNCH UNCH UNCH
TOTAL JAN19 23100						0.1002	+ 0.0189	.4194					102 2	UNCH
THE INF	ORMATIO		THIS REPORT IS COMP	PILED FOR THE CON		USER AND IS	FURNISHED V	VITHOUT R				CY OR CO		

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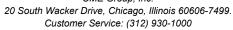
(GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PI & PT.CI		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTER	OPEN REST
LB CALL	L	EURO HEATING	OIL							VOLUME			2	
FEB19 23100						0.1119 +	0.0190	.4298					2 2	UNCH
MAR19 23100						0.1189 +	0.0191	.4317					2 2	UNCH
TOTAL APR19 23100 TOTAL						0.1246 +	0.0186	.4293					1 1	UNCH
LB PUT NOV18		EURO HEATING	OIL											
22100 TOTAL DEC18						0.1235 -	0.0205	.4932					1 1	UNCH
21000 21200 22100 TOTAL						0.0874 - 0.0954 - 0.1375 -	0.0107	.3511 .3741 .4812					2 2 2 6	UNCH UNCH UNCH
JAN19 21000						0.0952 -	0.0117	.3518					2	UNCH
21200 22100 TOTAL						0.1033 - 0.1455 -		.3732 .4724					2 2 2 6	UNCH
FEB19 21000						0.1060 -		.3587					2	UNCH
21200 22100 TOTAL						0.1146 - 0.1582 -	0.0123	.3788 .4707					2 2 2 6	UNCH
MAR19 21000						0.1192 - 0.1279 -	0.0104	.3697 .3886					2	UNCH
21200 22100 TOTAL APR19							0.0110	.4750					2 2 2 6	UNCH
21000 21200						0.1349 - 0.1441 -	0.0109	.3843					2 2 1	UNCH
22100 TOTAL						0.1898 -		.4836					1 5	UNCH
GVR CAL JUN18	LL	GULF COAST JI	ET FUEL(PLATTS)A	PO										
12700 13600						0.8152 + 0.7252 +	0.0074	1.0000 1.0000					50 25	UNCH UNCH
14500 15000						0.6352 + 0.5852 +	0.0074 0.0074	1.0000 1.0000					25 15	UNCH UNCH
15300 17500 18900 TOTAL						0.3353 +	0.0074 0.0075 0.0074	1.0000 1.0000 1.0000					15 75 25 230	UNCH UNCH UNCH
JUL18 15000						0.6185 +	0.0495	1.0000					15	UNCH
17800 18200						0.3394 + 0.2999 +	0.0487 0.0481	.9944 .9937					26 10	UNCH UNCH
19900 20500 21000						0.1391 + 0.0901 + 0.0560 +	0.0315	.8617 .7330 .5795					50 30 25 156	UNCH UNCH UNCH
TOTAL AUG18						0.6242	0.0474	0070						
15000 17800 18200						0.6243 + 0.3531 + 0.3160 +	0.0437	.9970 .9347 .9132					15 26 10	UNCH UNCH UNCH
19900 20500						0.1694 + 0.1245 +	0.0343	.7540 .6622					50 30	UNCH UNCH
21000 TOTAL SEP18						0.0913 +	0.0250	.5695					25 156	UNCH
15000 17800							0.0404	.9793 .8852					15 26	UNCH UNCH
18200 19900						0.1948 +	0.0393	.8620 .7174					10 50	UNCH
20500 21000							0.0288	.6434 .5714					30 25 156	UNCH
TOTAL OCT18						0.6146	0.0450	00.10						
15000 17500 18200				 			0.0458 0.0453 0.0442	.9949 .9270 .8867					15 26 10	UNCH UNCH UNCH
20000 21000 TOTAL			====		====		0.0380	.6877 .5524					150 55 256	UNCH
NOV18 15000						0.6092 +		.9886					15	UNCH
17500 18200 20000						0.3766 + 0.3183 + 0.1912 +	0.0434	.9011 .8569 .6678					26 10 150	UNCH UNCH UNCH
21000 TOTAL						0.1370 +		.5467					55 256	UNCH
DEC18 15000						0.6047 +		.9801					15	UNCH
17500 18200						0.3783 + 0.3224 +	0.0434 0.0426	.8779 .8324					26 10	UNCH UNCH
20000 21000 TOTAL							0.0375	.6533 .5431					150 55 256	UNCH
JAN19 21200 TOTAL						0.1597	NEW					50 50	50 + 50 +	50 50
FEB19 21200 TOTAL						0.1718	NEW					50 50	50 + 50 +	50 50
MAR19 21200 TOTAL						0.1800	NEW					50 50	50 + 50 +	50 50
APR19 21200						0.1834	NEW					50 50	50 + 50 +	50 50

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	LOBEX OPEN	OPEN OPEN	OUTCRY RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		.PRICE .CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		INTE	OP ERE
CALI	L	GULF	COAST JET	FUEL(PLATTS)	APO						VOLUME				
00 AL							0.1910	NEW					50 50	50 + 50 +	
.9 00							0.2033	NEW					50	50 +	
L PUT		GULF	COAST JET	FUEL(PLATTS)	APO								50	50 +	
.8 00								- 0.0005	.0051					125	
)() AL							0.0013	- 0.0021	.0216					30 155	
.8 00								- 0.0036	.0591					125	
00 AL							0.0145	- 0.0065	.1102					30 155	
L8 00								- 0.0055	.1053					125	
)O AL							0.0305	- 0.0082	.1611					30 155	
L8 00							0.0102	- 0.0004	.0729					125 125	
AL .8															
)() AL							0.0166	- 0.0003	.0988					125 125	
L8 00							0.0239	+ 0.0002	.1221					125	
ΑL														125	
		UE ***	NC OTL AT	O (AVC BRICE)	ORTIONS										
ALL .8 00		HEATI	NG UIL AP	O (AVG PRICE)	OPTIONS		0.7834	+ 0.0069	1.0000					50	
)0)0							0.7334 0.6934	+ 0.0069 + 0.0069	$1.0000 \\ 1.0000$					7 26	
0							0.6234	+ 0.0069 + 0.0069	1.0000 1.0000					40 10 3	
0 0 0								+ 0.0069 + 0.0069 + 0.0069	1.0000 1.0000 1.0000					100 33	
)0)0							0.5434 0.5334	+ 0.0069	1.0000					45 25	
10							0.5134 0.5034	+ 0.0069 + 0.0069	1.0000					15 4	
0							0.4934	+ 0.0069 + 0.0069	1.0000					5 55	
00							0.4635	+ 0.0070 + 0.0070	1.0000					15 67	
0							0.3935	+ 0.0070 + 0.0070	1.0000 1.0000					40 12	
)0)0							0.3035	+ 0.0069 + 0.0069	$1.0000 \\ 1.0000$					1 35	
)0)0							0.2635	+ 0.0069 + 0.0069	$1.0000 \\ 1.0000$					2 26	
)0)0							0.2435	+ 0.0069 + 0.0069	1.0000 1.0000					26 160	
00							0.1935	+ 0.0069	1.0000					10 25	
00							0.1635	+ 0.0069	1.0000					1 220	
00							0.1135	+ 0.0069	1.0000					220 16	
00 00 00							0.0935	+ 0.0069 + 0.0069 + 0.0069	1.0000 1.0000 .9963					1 60 30	
)0)0								+ 0.0065 UNCH	.9871					50 148	
00							0.0001 0.0001	UNCH						20 80	
AL.														1465	
.8 00							0.7683	+ 0.0470 + 0.0471	1.0000 1.0000					7 3	
)0)0)0							0.6386	+ 0.0471 + 0.0471	1.0000					1 3	
0							0.6086	+ 0.0470 + 0.0470	1.0000					4 15	
00							0.5487 0.5387	+ 0.0470 + 0.0470	1.0000 1.0000					10 4	
)0)0							0.5288 0.4988	+ 0.0471 + 0.0470	1.0000					5 25	
00							0.4289	+ 0.0470 + 0.0470	.9999					50 50	
00							0.3491	+ 0.0470 + 0.0471	.9995					2 26	
00 00							0.3091	+ 0.0469 + 0.0469 + 0.0469	.9973 .9969 .9965					53 125 26	
)0)0)0							0.2892	+ 0.0467 + 0.0467	.9959					150 80	
00							0.2496	+ 0.0464 + 0.0459	.9902					10 10	
0							0.2201 0.1912	+ 0.0457 + 0.0453	.9877 .9664					2 30	
)0)0							0.1816 0.1626	+ 0.0449 + 0.0440	.9546 .9406					180 100	
)0)0							0.1440	+ 0.0434 + 0.0428	.9297					10 1	
00 00							0.1170	+ 0.0421 + 0.0399 + 0.0356	.8990 .8649 .7961					115 50 110	
)0)0)0							0.0693	+ 0.0356 + 0.0301 + 0.0263	.7015					65 75	
)0)0							0.0503	+ 0.0245 + 0.0168	.5879					1 186	
00							0.0230	+ 0.0134 + 0.0091	.3496					25 30	
00							0.0060 0.0007	+ 0.0042 + 0.0006	.1205 .0179					80 125	
)Ö AL								+ 0.0001	.0056					128 1972	
							0 7725	+ 0.0455	.9999					7	
								+ 0.0433	.9999					3	
L8 00 00 00								+ 0.0456	.9996					ī	





FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX [®] VOLUME		INT	OPEN EREST
AT CAL	L	HEATING OIL A	APO (AVG PRICE)	OPTIONS					VOLUME				
AUG18 16300						0.5534 + 0.0456	.9977					10	UNCH
16400 16500						0.5434 + 0.0454 0.5336 + 0.0456	.9973					4 5	UNCH
16800 17000						0.5038 + 0.0455 0.4839 + 0.0454	.9949					25 50	UNCH
17500 18000						0.4346 + 0.0454 0.3855 + 0.0450 0.3564 + 0.0449	.9879 .9798 .9823					50 2	UNCH
18300 18600						0.3275 + 0.0445	.9699					26 53 125	UNCH
18700 18800						0.3179 + 0.0443 0.3084 + 0.0442 0.2989 + 0.0441	.9655					26	UNCH
18900 19000						0.2989 + 0.0441 0.2894 + 0.0437 0.2615 + 0.0432	.9550 .9422 .9290					150 80 10	UNCH UNCH UNCH
19300 19500						0.2433 + 0.0428 0.2342 + 0.0423	.9070					10 10 2	UNCH
19600 19900 20000						0.2078 + 0.0414 0.1992 + 0.0410	.8720 .8570					30 180	UNCH
20200 20300						0.1823 + 0.0399 0.1741 + 0.0394	.8345					100 10	UNCH
20500 20500 20700						0.1580 + 0.0378 0.1426 + 0.0359	.7883					115 50	UNCH
21000 21300						0.1213 + 0.0334 0.1019 + 0.0311	.7000					110 15	UNCH
21500 21600						0.0901 + 0.0290 0.0844 + 0.0278	.5944					75 1	UNCH
21900 21900 22000						0.0691 + 0.0244 0.0644 + 0.0232	.5052					1 172	UNCH
22200 22200 22500						0.0558 + 0.0210 0.0445 + 0.0178	.4386					25 30	UNCH
23000 24000						0.0296 + 0.0129 0.0117 + 0.0057	.2773					80 125	UNCH
24500						0.0070 + 0.0036	.0858					128 1908	UNCH
TOTAL SEP18												1500	
14100 14800						$\begin{array}{cccc} 0.7766 & + & 0.0441 \\ 0.7070 & + & 0.0441 \end{array}$.9989 .9981					7	UNCH UNCH
15400 15500						$0.6473 + 0.0440 \\ 0.6374 + 0.0441$.9971 .9969					1 3	UNCH
15700 15900						0.6175 + 0.0440 0.5977 + 0.0440	.9964 .9959					4 15	UNCH UNCH
16300 16400						0.5582 + 0.0439 0.5484 + 0.0439	.9934 .9925					10 4	UNCH UNCH
16500 16800						$ \begin{array}{r} 0.5385 + 0.0439 \\ 0.5091 + 0.0437 \end{array} $.9914 .9877					5 25	UNCH UNCH
17000 17500						0.4896 + 0.0437 0.4411 + 0.0433	.9844 .9731					50 50	UNCH UNCH
18000 18300						0.3934 + 0.0428 0.3653 + 0.0425	.9569 .9540					2 26	UNCH UNCH
18600 18700						0.3376 + 0.0420 0.3284 + 0.0418	.9364 .9304					52 125	UNCH UNCH
18800 18900						$ \begin{array}{rrrr} 0.3194 & + & 0.0416 \\ 0.3104 & + & 0.0415 \end{array} $.9232 .9161					26 150	UNCH UNCH
19000 19300						0.3014 + 0.0412 0.2749 + 0.0405	.9023 .8849					81 10	UNCH UNCH
19500 19600						0.2577 + 0.0399 0.2492 + 0.0396	.8618 .8570					10 2	UNCH UNCH
19900 20000						$0.2242 + 0.0385 \\ 0.2162 + 0.0381$.8257 .8111					30 180	UNCH UNCH
20200 20300						$ \begin{array}{rrrr} 0.2003 & + & 0.0371 \\ 0.1924 & + & 0.0365 \end{array} $.7899 .7776					100 10	UNCH UNCH
20500 20700						$ \begin{array}{rrrr} 0.1773 & + & 0.0353 \\ 0.1628 & + & 0.0339 \end{array} $.7490 .7206					115 50	UNCH UNCH
21000 21300						$ \begin{array}{rrrr} 0.1423 & + & 0.0316 \\ 0.1234 & + & 0.0292 \end{array} $.6755 .6259					110 15	UNCH UNCH
21500 21600						$ \begin{array}{rrrr} 0.1117 & + & 0.0274 \\ 0.1062 & + & 0.0266 \end{array} $.5915 .5741					78 1	UNCH UNCH
21900 22000						0.0908 + 0.0240 0.0861 + 0.0232	.5212 .5036					1 65	UNCH UNCH
22200 22500						0.0772 + 0.0216 0.0651 + 0.0190	.4687 .4173					25 30	UNCH UNCH
23000 24000						$0.0485 + 0.0154 \\ 0.0255 + 0.0093$.3374					80 125	UNCH UNCH
24500 TOTAL						0.0181 + 0.0071	.1552					128 1804	UNCH
OCT18						0.7805 + 0.0432	.9988					7	UNCH
14100 15500						0.6421 + 0.0431 0.6029 + 0.0430	.9930					3 15	UNCH
15900 16300						0.5639 + 0.0427 0.5542 + 0.0426	.9838					30 4	UNCH
16400 16500						0.5446 + 0.0427 0.4494 + 0.0418	.9802					5 40	UNCH
17500 18000						0.4033 + 0.0416	.9306					4	UNCH
18300 18600						0.3760 + 0.0416 0.3488 + 0.0415 0.3308 + 0.0412	.9263 .9090 .8967					37 235	UNCH UNCH UNCH
18800 18900						0.3219 + 0.0410 0.3130 + 0.0407	.8901 .8761					51 66	UNCH
19000 19100 19200						0.3130 + 0.0407 0.3041 + 0.0404 0.2954 + 0.0401	.8766					10 60	UNCH
19500 19500 19600						0.2696 + 0.0388 0.2613 + 0.0385	.8393 .8354					10 2	UNCH
20000 20300						0.2291 + 0.0367 0.2062 + 0.0347	.7914 .7601					156 10	UNCH
20500 20500 21000						0.1918 + 0.0335 0.1586 + 0.0301	.7330					10 10 181	UNCH
21100 21100 21200						0.1525 + 0.0292 0.1465 + 0.0282	.6519					3 1	UNCH
21500 21500 21800						0.1299 + 0.0259 0.1152 + 0.0242	.5927					2	UNCH
21900 21900 22000						0.1106 + 0.0236 0.1060 + 0.0229	.5330					31 103	UNCH
22100 22100 22200						0.1016 + 0.0223 0.0974 + 0.0217	.5036					1 25	UNCH
22300 22300 22500						0.0933 + 0.0217 0.0855 + 0.0199	.4748					2 60	UNCH
23000 24000						0.0682 + 0.0168 0.0425 + 0.0117	.3792					105 100	UNCH
24500 26000						0.0332 + 0.0096 0.0155 + 0.0052	.2161					233 50	UNCH
TOTAL												1655	
NOV18 14100						0.7842 + 0.0422	.9971					7	UNCH
15500 15900						0.6469 + 0.0421 0.6081 + 0.0419 0.5698 + 0.0419	.9864 .9803 .9931					3 15 30	UNCH UNCH UNCH
16300 16400 16500						0.5698 + 0.0419 0.5602 + 0.0418 0.5507 + 0.0417	.9963					30 4 5	UNCH UNCH UNCH
16500 17500 17700						0.4571 + 0.0411 0.4389 + 0.0411	.9364					40 2	UNCH
18000 18300						0.4119 + 0.0408 0.3853 + 0.0403	.9138					4 2	UNCH
18600						0.3593 + 0.0399	.8888					35	UNCH
IHE IN	FUKMATIO	ON CONTAINED IN	IHIS KEPORT IS	COMPILED FOR THE CO	INVENTENCE OF THE	USER AND IS FURNISHED W THE BASIS FOR ANY CLAI	AT I HOOL I	KESPONSI	BILITY FO	JK ACCURA	ACY UR CO	MIENT. IT	ΓIS

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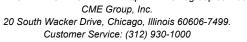




FINAL

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THE N	NOMINAL	PRICE IS THE	PREVIOUS DAY	'S SETTLEMENT PRI	CE.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
AT CAI	LL	HEATING OIL A	APO (AVG PRICE)	OPTIONS									
18800 18900						$0.3422 + 0.0394 \\ 0.3339 + 0.0393$.8747 .8668					236 52	UNCH UNCH
19000 19100						0.3256 + 0.0391 0.3174 + 0.0388	.8518 .8509					71 10	UNCH
19200 19500						0.3092 + 0.0386 0.2853 + 0.0378	.8428 .8114					60 10	UNCH
19600						0.2775 + 0.0375 0.2623 + 0.0369	.8072					2 4	UNCH
19800 20000						0.2474 + 0.0362	.7878					157	UNCH
20100 20200						0.2402 + 0.0359 $0.2330 + 0.0355$.7572 .7467					1	UNCH
20600 21000						0.2057 + 0.0339 0.1802 + 0.0321	.7019 .6545					1 181	UNCH
21100 21200						$ \begin{array}{rrrr} 0.1742 & + & 0.0317 \\ 0.1683 & + & 0.0312 \end{array} $.6423 .6300					2 1	UNCH UNCH
21300 21400						0.1625 + 0.0307 0.1569 + 0.0303	.6176 .6051					1 1	UNCH UNCH
21500 21800						0.1514 + 0.0298 0.1355 + 0.0280	.5925 .5545					4 1	UNCH UNCH
21900 22000						0.1305 + 0.0274 0.1256 + 0.0268	.5418 .5291					33 103	UNCH UNCH
22100 22200						0.1209 + 0.0263 0.1163 + 0.0257	.5164 .5037					2 25	UNCH UNCH
22300 22500						$ \begin{array}{rrrr} 0.1119 & + & 0.0252 \\ 0.1033 & + & 0.0239 \end{array} $.4911 .4660					1 60	UNCH UNCH
22700 23000						0.0950 + 0.0224 0.0839 + 0.0206	.4411 .4048					1 105	UNCH
24000 24500						0.0550 + 0.0158 0.0441 + 0.0136	.2960					100 233	UNCH
26000						0.0218 + 0.0071	.1408					50 1656	UNCH
TOTAL DEC18												1030	
14100 15500						0.7884 + 0.0407 0.6528 + 0.0402	.9931 .9762					7 3	UNCH UNCH
15900						0.6148 + 0.0400 0.5774 + 0.0398	.9678					15 30	UNCH
16300 16400						0.5681 + 0.0397	.9811					30 4 5	UNCH
16500 17500						0.5588 + 0.0396 0.4680 + 0.0390 0.4502 + 0.0390	.9768 .9144 .9196					40 2	UNCH
17700 18000						0.4238 + 0.0387	.8911					4	UNCH
18300 18600						0.3977 + 0.0384 0.3719 + 0.0378	.8862 .8679					2 35	UNCH
18700 18800						$0.3634 + 0.0375 \\ 0.3550 + 0.0373$.8614 .8547					1 236	UNCH UNCH
18900 19000						0.3467 + 0.0371 0.3384 + 0.0368	.8477 .8335					52 71	UNCH UNCH
19100 19200						0.3303 + 0.0367 0.3222 + 0.0364	.8331 .8255					10 60	UNCH UNCH
19500 19600						0.2984 + 0.0356 0.2907 + 0.0353	.7963 .7928					11 2	UNCH
19800 20000						0.2754 + 0.0344 0.2606 + 0.0335	.7753 .7535					4 156	UNCH UNCH
20100 20200						0.2534 + 0.0330 0.2464 + 0.0327	.7472					3	UNCH
20400 20600						0.2326 + 0.0318 0.2193 + 0.0309	.7170 .6960					1 2	UNCH
21000						0.1941 + 0.0290 0.1882 + 0.0287	.6524 .6411					181 6	UNCH
21100 21200						0.1823 + 0.0282	.6299					2	UNCH
21300 21400						0.1766 + 0.0277 0.1709 + 0.0271	.6185 .6071					1	UNCH
21500 21800						0.1655 + 0.0267 0.1497 + 0.0251	.5955 .5608					4	UNCH
21900 22000						0.1447 + 0.0246 0.1399 + 0.0242	.5492 .5376					32 107	UNCH UNCH
22100 22200						$ \begin{array}{rrrr} 0.1352 & + & 0.0237 \\ 0.1305 & + & 0.0231 \end{array} $.5260 .5144					1 25	UNCH UNCH
22300 22400						$ \begin{array}{rrrr} 0.1260 & + & 0.0226 \\ 0.1216 & + & 0.0221 \end{array} $.5029 .4914					1 2	UNCH UNCH
22500 22700						$ \begin{array}{rrrr} 0.1174 & + & 0.0217 \\ 0.1092 & + & 0.0206 \end{array} $.4800 .4573					60 6	UNCH UNCH
22800 23000						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.4460 .4240					105	UNCH
24000 24500						0.0671 + 0.0144 0.0552 + 0.0124	.3222					100 233	UNCH
26000						0.0301 + 0.0077	.1705					50 1679	UNCH
TOTAL JAN19												20.5	
17700 18700						0.4490 + 0.0369 0.3645 + 0.0352	.9187 .8549					2 1	UNCH UNCH
18800 18900						0.3564 + 0.0348 0.3484 + 0.0346	.8476 .8401					51 1	UNCH
19000						0.3405 + 0.0343	.8324					56	UNCH
19300 19600						0.3174 + 0.0335 0.2951 + 0.0326 0.2807 + 0.0320	.8080 .7821					60 22 4	UNCH
19800 20000						0.2807 + 0.0320 0.2667 + 0.0314	.7640 .7422					15	UNCH
20100						0.2599 + 0.0310 0.2531 + 0.0306	.7358					1 1	UNCH
20400 20600						0.2400 + 0.0299 0.2273 + 0.0291	.7064					1 1	UNCH
20800 21000						$\begin{array}{cccc} 0.2151 & + & 0.0284 \\ 0.2032 & + & 0.0274 \\ 0.1035 & + & 0.0274 \end{array}$.6656					25 112	UNCH
21100 21200						0.1975 + 0.0270 $0.1919 + 0.0266$.6343 .6237					5 14	UNCH
21300 21400						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.6130 .6024					11 2	UNCH UNCH
21500 21800						0.1757 + 0.0253 0.1606 + 0.0241	.5917 .5596					4 4	UNCH UNCH
21900 22000						$ \begin{array}{rrrr} 0.1557 & + & 0.0236 \\ 0.1510 & + & 0.0232 \end{array} $.5489 .5383				50 	56 + 9	50 UNCH
22100 22100 22200						0.1464 + 0.0228 0.1419 + 0.0224	.5276					2 1	UNCH
22400 22500						0.1332 + 0.0216 0.1290 + 0.0212	.4959					25 21	UNCH
22600						0.1249 + 0.0207	.4751					1 6	UNCH
22700						0.1208 + 0.0202 0.1094 + 0.0190	.4647					111	UNCH
23500 23700						0.0924 + 0.0170 0.0862 + 0.0162	.3852					56 1	UNCH
25000 26000						0.0538 + 0.0115 $0.0368 + 0.0087$.2570					1 50	UNCH
26500 TOTAL						0.0302 + 0.0074	.1619				50	50 783 +	UNCH 50
FEB19						0.4470	2022					_	
17700 18700						$0.4478 + 0.0354 \\ 0.3659 + 0.0335$.8993 .8341					2 1	UNCH
18800 18900						$\begin{array}{ccc} 0.3581 & + \ 0.0333 \\ 0.3505 & + \ 0.0331 \end{array}$.8267 .8190					51 _2	UNCH UNCH
19000 19300						$\begin{array}{cccc} 0.3428 & + & 0.0328 \\ 0.3205 & + & 0.0321 \end{array}$.8115 .7875					56 60	UNCH UNCH
19600 20000						0.2990 + 0.0313 0.2716 + 0.0302	.7624 .7243					22 16	UNCH UNCH
THE I	NFORMATIO					USER AND IS FURNISHED V	VITHOUT I				ACY OR CO	NTENT. IT	IS
ACCEP	TED BY TH	HE USER ON THE C	ONDITION THAT E	RRORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLA	M, DEMAI	ND, OR (AUSE FOR	ACTION.			





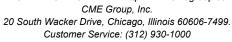
Side 35

FINAL

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Column	THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'	S SETTLEMENT PRI	CE.						
								DELTA	OUTCRY			
		L	HEATING OIL A	APO (AVG PRICE)	OPTIONS							
	20200											
1												
1	21100						0.1988 + 0.0262					
	21300						0.1934 + 0.0258	.6029				
	21500						0.1828 + 0.0249	.5830				
	21900						0.1631 + 0.0233	.5432				50
200	22100						0.1539 + 0.0225	.5234				UNCH
2 2 2 2 2 2 2 2 2 2	22500						0.1368 + 0.0211	.4842			21	UNCH
1	22800						0.1249 + 0.0199	.4554				UNCH
1	23500						0.1003 + 0.0173	.3907			56	UNCH
1900	25000						0.0610 + 0.0121	.2698				UNCH
Second Column Second Colum	26500								 			UNCH
1.000												
1900							0.3612 + 0.0320	.8145			1	UNCH
Display							0.3464 + 0.0316	.7993			1	
Second												
1000	19600						0.2972 + 0.0298 0.2712 + 0.0289	.7425 .7055	 	 	15	UNCH
25200	20300 20600						0.2525 + 0.0279 0.2347 + 0.0269	.6811 .6539	 	 	1 1	UNCH
1 1 1 1 1 1 1 1 1 1	20800 21000						0.2234 + 0.0263 0.2125 + 0.0256	.6355 .6169	 	 	112	UNCH UNCH
1 1 1 1 1 1 1 1 1 1												
1							0.1917 + 0.0243	.5797			1	UNCH
1 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100							0.1679 + 0.0227	.5331			54 +	
12500							0.1589 + 0.0220	.5146			1	UNCH
12700							0.1421 + 0.0205					
23500	22700						0.1305 + 0.0193	.4513			1	UNCH
26000							0.1066 + 0.0170	.3913				UNCH
TOTAL							0.0494 + 0.0096	.2176	 	 	50	UNCH
MARIA							0.0421 + 0.0086	.1913	 			
1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900	APR19						0.2661 0.0210	7020			1	
1 1 1 1 1 1 1 1 1 1	19000						0.3438 + 0.0311	.7729	 	 	1	UNCH
1100	20400						0.2510 + 0.0270	.6610	 	 	25	UNCH
1	21100						0.2119 + 0.0248	. 5998	 	 	1	UNCH
21100	21800						0.1778 + 0.0221	.5379	 	 	1	UNCH
227506	22100						0.1648 + 0.0210	.5117	 		1	UNCH
25000	22700						0.1412 + 0.0191	.4606		 	1	UNCH
MAY19	25000						0.0761 + 0.0122	.2914	 		1	UNCH
20400							0.0377 + 0.0096	.2340	 	 50		
10							0.2565 + 0.0260	.6556	 	 	25	UNCH
12100	21000						0.2236 + 0.0243	.6052			10	UNCH
22500	21200						0.2134 + 0.0238	.5882			13	UNCH
23000	22500						0.1548 + 0.0199	.4792			60	
26000	23000						0.1360 + 0.0182	.4388				UNCH
1000	26000								 			UNCH
10 UNCH 121500	JUN19											
21500	21000						0.2354 + 0.0243	.6089	 	 	10	UNCH
125000	21900						0.1920 NEW	.5363	 	 50	50 +	50
10.0717 0.0104 2.606 50 UNCH TOTAL	22500 23000						0.1485 + 0.0182	.4509	 	 	110	UNCH
TOTAL JUL19 JU											50	UNCH
1										50	319 +	50
25000 0.0956 + 0.0134 3230 1 UNCH 13 UNCH	21200											
AUG19 21200	25000						0.0956 + 0.0134				1	
11											13	
25000	21200										1	
SEP19 21200	25000								 	 	1	
1200 1. Unch											1.5	
25000 0.1122 + 0.0141 .3479 1 UNCH TOTAL OCT19 21200 0.2653 + 0.0242 .6119 11 UNCH 21800 0.2349 + 0.0224 .5692 1 UNCH 22500 0.2034 + 0.0266 .5196 1 UNCH 25000 0.2034 + 0.0214 .3577 1 UNCH 25000 0.21800 0.21800 1 UNCH 25000 0.2763 + 0.0244 .6179 11 UNCH 21800 0.2455 + 0.0225 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0.0265 .5764 0										 	1	
OCT19 21200 0.2653 + 0.0242 .6119 11 UNCH 21800 0.2349 + 0.0224 .5692 1 UNCH 22500 0.2034 + 0.0265 .5196 1 UNCH 25000 0.2034 + 0.0266 .5196 1 UNCH 25000 0.1193 + 0.0144 .3577 1 UNCH 25000 1 UNCH 25000 0.2763 + 0.0245 .6179 1 UNCH 25000 0.2763 + 0.0244 .6179 1 UNCH 21200 0.2455 + 0.0225 .5764 1 UNCH 21800 0.2455 + 0.0225 .5764 1 UNCH 22500 0.2455 + 0.0225 .5764 1 UNCH 21500 0.2455 + 0.0225 .5764 0.0208 .5281 1 UNCH 21500 0.2455 + 0.0225 .5764 0.0208 .5281 1 UNCH 21500 0.2455 + 0.0225 .5764 0.0208 .5281 0.0208 .5281 1 UNCH	25000								 	 	1	
21800 0.2349 + 0.0224 5.692 1 UNCH 22500 0.2034 + 0.0206 5.196 1 UNCH 25000 0.1193 + 0.0144 3577 1 UNCH 25000 0.1193 + 0.0144 3577 1 UNCH 25000 0.1193 + 0.0144 3577 1 UNCH 21200 0.1193 + 0.0144 6.179 1 UNCH 21200 0.1193 + 0.0244 6.179 11 UNCH 212800 0.1193 + 0.0245 + 0.0225 5.764 1 UNCH 212800 0.1193 + 0.0245 + 0.0225 5.764 1 UNCH 212800 0.1193 + 0.0245 + 0.0225 5.764 0.1193 + 0.0245 + 0.0225 5.764 1 UNCH 212800 0.1193 + 0.0245 + 0.0225 5.764 0.1193 + 0.0245 + 0.0225 5.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0225 6.764 0.1193 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245 + 0.0245	OCT19											
25000 0.1193 + 0.0144 .3577 1 UNCH TOTAL NOV19 21200 0.2763 + 0.0244 .6179 11 UNCH 21800 0.2455 + 0.0225 .5764 11 UNCH 22500 0.2455 + 0.0225 .5764 11 UNCH 22500 0.2137 + 0.0208 .5281 1 UNCH 21500 11 UNCH 22500 0.2137 + 0.0208 .5281 11 UNCH 22500 0.2137 + 0.0208	21800						0.2349 + 0.0224	. 5692	 	 	1	UNCH
NOV19 21200 0.2763 + 0.0244 .6179 11 UNCH 21800 0.2455 + 0.0225 .5764 1 UNCH 22500 0.2455 + 0.0225 .5764 1 UNCH 22500 0.2455 + 0.0225 .5764 1 UNCH 22500 0.2137 + 0.0208 .5281	22500										1	
21200 0.2763 + 0.0244 .6179 11 UNCH 21800 0.2763 + 0.0225 .5764 11 UNCH 21800 0.2250 0.2250 .5764 1 UNCH 22500 0.2137 + 0.0208 .5281 1 UNCH THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.											14	
22500 0.2137 + 0.0208 .5281 1 UNCH THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.	21200											
ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.												
					RRORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLA	IM, DEMAN		CY OR CO	NTENT. IT	IS

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin





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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'	S SETTLEMENT PRI	CE.								
,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
AT CALI NOV19 25000 TOTAL	L 	HEATING OIL A	APO (AVG PRICE)	OPTIONS		0.1278 + 0.014	7 .3693					1 14	UNCH
DEC19 21200						0.2883 + 0.024	3 .6282					11	UNCH
21800 22500						0.2570 + 0.022 0.2242 + 0.020	.5397					1 1 1	UNCH
25000 TOTAL						0.1357 + 0.014	3 .3817					14	UNCH
JAN20 21800						0.2598 + 0.022	2 .5887					1	UNCH
22000 25000 TOTAL						0.2500 + 0.021 0.1383 + 0.014						$\frac{1}{1}$	UNCH
FEB20 21800						0.2578 + 0.021	5 .5823						UNCH
22000 25000						0.2482 + 0.0209 0.1386 + 0.014	.5689					1 1 1 3	UNCH
TOTAL MAR20												3	
21800 22000						0.2512 + 0.0209 0.2419 + 0.0199	.5578					1 1 1 3	UNCH
25000 TOTAL						0.1359 + 0.013	3747					3	UNCH
APR20 22000						0.2380 + 0.019 0.1348 + 0.012						1	UNCH UNCH
25000 TOTAL						0.1346 + 0.012	.3097					1 2	UNCH
MAY20 22000 25000						0.2361 + 0.018 0.1349 + 0.012	3 .5432 5 .3674					1 1 2	UNCH UNCH
TOTAL JUN20												2	
22000 25000						0.2375 + 0.0179 0.1369 + 0.012						1 1 2	UNCH UNCH
TOTAL JUL20												2	
22000 25000						0.2388 + 0.017 0.1391 + 0.011						1 1	UNCH UNCH
TOTAL AUG20												2	
22000 25000						0.2400 + 0.016 0.1412 + 0.011						1 1 2	UNCH
TOTAL SEP20						0.2407 . 0.016							
22000 25000 TOTAL						0.2407 + 0.016 0.1429 + 0.011						1 1 2	UNCH
ост20						0.2400 + 0.015	7 .5320						UNCH
22000 25000 TOTAL						0.1436 + 0.010	.3698					1 1 2	UNCH
NOV20 22000						0.2388 + 0.015	2 .5285					1	UNCH
25000 TOTAL						0.1435 + 0.010						1 2	UNCH
DEC20 22000						0.2444 + 0.015						1	UNCH
25000 TOTAL						0.1487 + 0.010	.3738					1 2	UNCH
AT PUT JUN18		HEATING OIL A	APO (AVG PRICE)	OPTIONS		0.0001 UNC	1					6	UNCH
12000 12500 13500						0.0001 UNCI 0.0001 UNCI	1					40 1	UNCH
14000 15000						0.0001 UNCI	1					46 200	UNCH
16000 16300 16800						0.0001 UNCI 0.0001 UNCI 0.0001 UNCI	4					15 1 2	UNCH UNCH UNCH
17500 18000						0.0001 UNCI	4					100 20	UNCH
18500 20500 20900				 		0.0001 UNCI 0.0001 UNCI 0.0001 UNCI	4					50 30 1	UNCH UNCH UNCH
22500 TOTAL						0.1067 - 0.0069						50 562	UNCH
JUL18 12000						0.0001 UNC						6	UNCH
12500 13500						0.0001 UNCI 0.0001 UNCI	4					40 1 15	UNCH
14000 16000 16800						0.0001 UNCI 0.0001 UNCI 0.0001 UNCI	4					15 50 2	UNCH UNCH UNCH
18000 18500						0.0001 UNCI 0.0001 UNCI	1 .0004 1 .0022					20 125	UNCH UNCH
19000 19500 20000				 		0.0002 - 0.0000 0.0007 - 0.0010 0.0023 - 0.0020	L .0154					195 75 3	UNCH UNCH UNCH
20500 20700						0.0055 - 0.0050 0.0076 - 0.0073	.1009 L .1350					75 30	UNCH UNCH
21500 TOTAL						0.0267 - 0.020	7 .3729					1 638	UNCH
AUG18 12000						0.0001 UNCI 0.0001 UNCI						6 40	UNCH
12500 13500 14000						0.0001 UNCI 0.0001 UNCI	.0000					1 15	UNCH UNCH
16000 16800						0.0001 - 0.0000 0.0004 - 0.0000 0.0017 - 0.0000	L .0013 L .0050					50 2 20	UNCH UNCH UNCH
18000 18500 19000						0.0031 - 0.0010 0.0053 - 0.0010	0 .0351 3 .0577					125 195	UNCH UNCH
19500 20000						0.0090 - 0.0028 0.0147 - 0.0048	3 .0929 5 .1429					75 3	UNCH UNCH
20500 20700 TOTAL						0.0234 - 0.007 0.0279 - 0.009						75 30 637	UNCH
SEP18 12000						0.0001 UNC	н .0000					6	UNCH
12500 13500						0.0001 UNCI 0.0001 UNCI	.0000 .0004					40 1	UNCH UNCH
14000	FORMATIO	N CONTAINED IN	THIS REPORT IS	COMPILED FOR THE CO	ONVENIENCE OF THE U	0.0001 UNC		RESPONS		OR ACCURA	ACY OR CO	15 NTENT. IT	UNCH
				RRORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CL All rights reserve	AIM, DEMA				JR CO	11	

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FINAL



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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX [®] VOLUME	INTE	OPEN EREST
AT PUT SEP18		HEATING OIL A	APO (AVG PRICE)	OPTIONS					VOLUME			
16000						0.0004 - 0.0000 0.0049 - 0.001					 52 20	UNCH
18000 18500						0.0080 - 0.0020 0.0124 - 0.0029	.0664				 225 195	UNCH
19000 19500						0.0185 - 0.0042 0.0267 - 0.0060	.1381				 75 3	UNCH
20000						0.0376 - 0.0088	.2509				 75	UNC
20700 TOTAL						0.0430 - 0.0102	.2793				 30 737	UNCI
OCT18						0.0001 UNC	.0000				 6	UNCI
12000						0.0001 UNCI 0.0001 UNCI	.0000				 40 1	UNC
13500 14000						0.0001 UNC	.0010				 15 3	UNC
16000 17500						0.0067 - 0.0014	.0479				 10	UNC
18000 18200						0.0102 - 0.0010 0.0118 - 0.0010	.0790				 50 50	UNCI
18500 19000						0.0144 - 0.0013 0.0192 - 0.0023	.1238				 125 100	UNCI
19500 20000						0.0255 - 0.004 0.0346 - 0.0066	.2085				 100 _3	UNCI
20500 TOTAL						0.0470 - 0.0097	.2669				 75 578	UNCI
NOV18						0.0001						
12000 12500						0.0001 UNC	.0008				 6 40	UNCI
13500 14000						0.0002 UNCI 0.0003 UNCI	.0025				 1 15	UNC
16000 17500						0.0031 - 0.0002 0.0104 - 0.0010	.0635				 4 10	UNC
18000 18200						0.0147 - 0.0014 0.0168 - 0.0016	.0967				 30 50	UNC
18500 19000						0.0203 - 0.0023 0.0276 - 0.0030	.1481				 125 100	UNC
19500 20000						0.0369 - 0.0043 0.0485 - 0.0060	.2352				 100 3	UNC
20300 20500						0.0569 - 0.0070 0.0630 - 0.0078	.2664				 1 75	UNC
TOTAL											560	-
DEC18 12000						0.0001 UNC					 6	UNCH
12500 13500						0.0001 UNCI 0.0005 - 0.0003	.0008				 40 1	UNCH
14000 16000						0.0009 - 0.0003 0.0061 - 0.0008	.0061				 15 6	UNCH
17500 18000						0.0171 - 0.0018 0.0224 - 0.0020	.0856				 10 30	UNCH
18200 18500						0.0246 - 0.0023 0.0284 - 0.0028	.1186				 50 125	UNCH
19000						0.0359 - 0.0040 0.0454 - 0.0052	.1664				 100 100	UNCH
19500						0.0571 - 0.0077 0.0718 - 0.0094	.2464				 3 75	UNCH
20500 TOTAL						0.0718 - 0.0094	.2931				 561	UNCF
JAN19						0.0067 0.0009	3 .0370				 9	UNC
16000 18000						0.0067 - 0.0008 0.0237 - 0.0029	.1126				 1	UNCH
20000 20300						0.0649 - 0.0077 0.0744 - 0.0087					 1 1	UNCH
TOTAL											12	
EB19 16000						0.0102 - 0.0007					 7	UNCH
18000 20000						0.0311 - 0.0024 0.0774 - 0.0072					 1 1 9	UNCH UNCH
TOTAL											9	
MAR19 16000						0.0123 - 0.0013					 5	UNCH
18000 20000						0.0377 - 0.0034 0.0904 - 0.0078					 1 1_	UNCH
TOTAL											7	
APR19 16000						0.0226 - 0.0014					 3	UNCH
18000 TOTAL						0.0508 - 0.0030	.1713				 1 4	UNCH
4AY19						0.0205						
16000 18000						0.0206 - 0.0019 0.0518 - 0.0039	.0794 .1735				 1 1 2	UNCH
TOTAL											2	
JUN19 18000						0.0586 - 0.0039	.1812				 1 1	UNCH
TOTAL											1	
JUL19 18000						0.0665 - 0.0040	.1888				 1	UNCH
TOTAL											1	
AUG19 18000						0.0691 - 0.0040	.1890				 1	UNCH
TOTAL											1	
SEP19 18000						0.0731 - 0.0042	.1918				 1	UNCH
TOTAL											1	
ОСТ19 18000						0.0760 - 0.0043	.1930				 1	UNCH
TOTAL											1	
						0.0784 - 0.0043	.1928				 1	UNCH
NOV19 18000											1	
NOV19 18000 TOTAL						0.0776 - 0.0043	.1881				 1	UNC
NOV19 18000											1	
NOV19 18000 TOTAL DEC19 18000 TOTAL											_	
NOV19 18000 TOTAL DEC19 18000						0.0788 - 0.0042	.1887				 1	UNC
NOV19 18000 TOTAL DEC19 18000 TOTAL JAN20 18000 TOTAL						0.0788 - 0.0043	.1887				 1 1	UNCI
NOV19 18000 TOTAL DEC19 18000 TOTAL JAN20 18000						0.0788 - 0.0045 0.0838 - 0.0045					 1	
NOV19 18000 TOTAL DEC19 18000 TOTAL JAN20 18000 TOTAL FEB20 18000 TOTAL												
NOV19 18000 TOTAL DEC19 18000 TOTAL JAN20 18000 TOTAL =EB20 18000							.1956				1 1	UNCH
NOV19 18000 TOTAL DEC19 18000 TOTAL JAN20 18000 TOTAL FEB20 18000 TOTAL						0.0838 - 0.004	.1956				1 1	UNCH

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Side 38

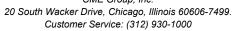
FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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PUT			HIGH/LOW	CLOSE RANGE	& PT.C	iidL.	DELIA	CISES	OUTCRY VOLUME	VOLUME	VOLUME	2	ERE
	HEATING OIL A	PO (AVG PRICE) (OPTIONS						VOLUME			1	
0	 				0.1010 -	0 0045	.2204					1	
L	 				0.1010 -	0.0043	.2204					1	
) -	 				0.1046 -	0.0046	.2239					1 1	
)	 				0.1083 -	0.0046	.2274					1	
-					0.1003	0.0040	.2274					1	
)) L	 				0.1126 -	0.0045	.2314					1 1	
)	 				0.1169 -	0.0045	.2359					1	
L					0.1103	0.0015	.2333					1	
) 0 L	 				0.1220 -	0.0045	.2410					1 1	
0	 				0.1253 -	0.0045	.2449					1	
L D												1	
	 				0.1279 -	0.0044	.2452					1 1	
_													
ALL 3	HENRY HUB FIN	ANCIAL LAST DAY	0										
	 	#0.0100B/	#0.0100B/		0.0000 - 0.0000 -	0.0005					175 	0 - 0 -	
	 				0.0000 -	0.0001						0 -	
	 				0.0000 -	0.0001						0 - 0 -	
	 				0.0000 -	0.0001						0 - 0 -	
L	 				0.0000 -	0.0001					175	0 - 0 -	
3	 				0.0673 +	. 0. 0214	.4723					76	
	 				0.0673 + 0.0474 + 0.0322 +	0.0164	.4723 .3700 .2775					76 1 19	
	 				0.0322 + 0.0212 + 0.0087 +	0.0081	.1996					5 68	
	 				0.0055 + 0.0035 +	0.0018	.0623					6 4	
	 					0.0010 0.0002 UNCH	.0034					5 50	
_	 				0.0001	UNCH	.0000					234	
3	 				0.0841 +	0.0175	.4444					64	
	 				0.0658 +		.3733					1 19	
	 				0.0387 + 0.0215 +	0.0093	.2496					5 52	
	 				0.0158 + 0.0115 +	0.0041	.1201					6 4	
	 				0.0012 + 0.0001		.0112					5 43	
L					0.0001	UNCH	.0007					199	
8	 				0.1087 +	0.0174	.4663					36	
	 				0.0894 + 0.0728 +	0.0150	.4070 .3509					1 19	
	 				0.0588 +		.2991					5 42	
	 				0.0295 + 0.0232 +	0.0059	.1734					6	
	 				0.0035 + 0.0001		.0262					5 34	
L					2.3001	2						152	
	 				0.1553 +		.5193					5	
	 				0.1336 + 0.1142 +	0.0150	.4697 .4216					1 19	
	 				0.0972 + 0.0692 +	0.0103	.3757					5 36	
	 				0.0579 + 0.0482 +	0.0076	.2543					6 4	
	 				0.0273 + 0.0107 +	0.0018	.1385					13 30	
	 				0.0046 + 0.0005 +		.0280 .0030					9 28	
L R												156	
	 				0.2503 + 0.2246 +		.6100 .5703					5 1	
	 				0.2246 + 0.2009 + 0.1792 +	0.0151	.5703					19 5	
	 				0.1792 + 0.1414 + 0.1252 +	0.0118	.4172					32 6	
	 				0.1105 +	0.0097	.3820					4	
	 				0.0751 + 0.0385 +	0.0036	.2589					12 33	
	 				0.0196 + 0.0023 +		.0838 .0111					12 32 161	
L 9												161	
	 				0.3440 + 0.2924 +		.6526 .5899					5 1	
	 					0.0132	.4978					27 43	
	 				0.0953 + 0.0617 +	0.0071	.2553					40 18	
L					3.001, T							134	
	 				0.3795 +		.6218					5	
	 				0.3349 + 0.2782 +		.5711 .4994					1 28	
	 				0.2060 +		.3954					38	

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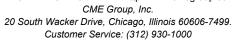


Side 39

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THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CCE.					,
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
E7 CAL	.L	HENRY HUB FIN	IANCIAL LAST DAY	0				VOLUME		129
MAR19						0.2552 . 0.0164	. 5753			E IINCII
300 325						0.3552 + 0.0164 0.2678 + 0.0132	.4667			5 UNCH 34 UNCH
350 375						0.2043 + 0.0104 0.1577 + 0.0084	.3763 .3034			39 UNCH 38 UNCH
400						0.1230 + 0.0069	.2452			21 UNCH 137
TOTAL APR19										
275						0.1701 + 0.0123	.4914			16 UNCH
300 325						0.0870 + 0.0079 0.0417 + 0.0046	.3064 .1721			35 UNCH 9 UNCH
TOTAL										60
MAY19 275						0.1460 + 0.0115	.4560			29 UNCH
300 325						0.0714 + 0.0071 0.0326 + 0.0040	.2718 .1453			36 UNCH 12 UNCH 77
TOTAL										77
JUN19 275						0.1659 + 0.0114	.4824			32 UNCH
300						0.0850 + 0.0072	.3002			35 UNCH
325 TOTAL						0.0410 + 0.0042	.1691			9 UNCH 76
JUL19						0 1020 . 0 0102	5000			35
275 295						0.1828 + 0.0103 0.1095 + 0.0072	.5080			35 UNCH 31 UNCH
300 325						0.0958 + 0.0064 0.0474 + 0.0038	.3241 .1874			68 UNCH 5 UNCH
TOTAL										139
AUG19 275						0.1925 + 0.0109	.5154			36 UNCH
295 300						0.1178 + 0.0079 0.1036 + 0.0071	.3689			31 UNCH 67 UNCH
TOTAL						J.1030 + 0.00/1	.5555	_		134 UNCH
SEP19						0 1010 0 0110	.5062			27 1181611
275 295						0.1919 + 0.0118 0.1191 + 0.0087	.3650			27 UNCH 30 UNCH
300 TOTAL						0.1053 + 0.0081	.3334			65 UNCH 122
OCT19										
275 295						0.2028 + 0.0114 0.1273 + 0.0084	.5208 .3797			18 UNCH 31 UNCH
300						0.1126 + 0.0076	.3475			36 UNCH 85
TOTAL NOV19										
295 300						$ \begin{array}{rrrr} 0.1528 & + & 0.0061 \\ 0.1359 & + & 0.0055 \end{array} $.4207 .3879			30 UNCH 41 UNCH
325						0.0737 + 0.0029	.2460			34 UNCH
TOTAL										105
DEC19 295						0.2200 + 0.0085	.5102			31 UNCH
300 325						0.2001 + 0.0079 0.1221 + 0.0050	.4783			46 UNCH 23 UNCH
TOTAL										100
JAN20 300						0.2872 + 0.0061	.5464			47 UNCH
325						0.2033 + 0.0033 0.1482 + 0.0013	.4226			65 UNCH 31 UNCH
350 TOTAL						0.1462 + 0.0013	.3256			143
FEB20						0 2122 . 0 0145	5304			44
300 325						$\begin{array}{cccc} 0.3123 & + & 0.0145 \\ 0.2311 & + & 0.0120 \end{array}$.5384			44 UNCH 58 UNCH
350 TOTAL						0.1751 + 0.0097	.3435			29 UNCH 131
MAR20										
300 325						0.2829 + 0.0133 0.2116 + 0.0108	.4996 .4000			41 UNCH 62 UNCH
350						0.1624 + 0.0084	.3211			31 UNCH 134
TOTAL APR20										154
300						0.0762 - 0.0028 0.0388 - 0.0042	.2580 .1512			9 UNCH 60 UNCH
325 350						0.0192 - 0.0039	.0839			30 UNCH
TOTAL										99
MAY20 300						0.0616 - 0.0035	.2279			8 UNCH
325 350						0.0294 - 0.0045 0.0139 - 0.0037	.1258 .0664			62 UNCH 31 UNCH
TOTAL										101
JUN20 300						0.0671 - 0.0036	.2425			4 UNCH
325 350						0.0324 - 0.0048 0.0153 - 0.0040	.1356			60 UNCH 30 UNCH
TOTAL						0.0233	107.13			94
JUL20						0.0367 - 0.0050	.1488			62 UNCH
325 350						0.0367 - 0.0050	.0799			31 UNCH
TOTAL										93
AUG20 325						0.0388 - 0.0055	.1544			62 UNCH
350 TOTAL						0.0187 - 0.0048	.0838			31 UNCH 93
SEP20										
325 350						0.0377 - 0.0058 0.0182 - 0.0051	.1505 .0818			60 UNCH 30 UNCH
TOTAL							- ===			90
OCT20						0.0424 - 0.0066	.1630			62 UNCH
325 350						0.0209 - 0.0058	.0905			31 UNCH
TOTAL										93
NOV20 325						0.0667 - 0.0006	.2159			60 UNCH
350 TOTAL						0.0385 - 0.0005	.1370			30 UNCH 90
DEC20										
325 350						0.1014 - 0.0008 0.0622 - 0.0007	.2853 .1923			62 UNCH 31 UNCH
TOTAL										93
THE IN	IFORMATIO	N CONTAINED IN	THIS REPORT IS C	OMPILED FOR THE CO	ONVENIENCE OF THE U	JSER AND IS FURNISHED W	WITHOUT RESPONS	IBILITY F	OR ACCURACY OR CO	NTENT. IT IS

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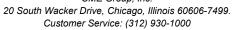
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GLC OF	OBEX PEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRI & PT.CHO		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME \	PNT /OLUME	INTE	OPEN EREST
L L		HENRY HUB FIN	IANCIAL LAST DAY	′ O		0.1246 + (0 0018	.2858					31	UN
_						0.1240 + 1	0.0018	.2030					31	UN
_						0.1366 +	0.0023	.2941					28 28	UN
_ L													28	
-						0.1286 + 0	0.0026	.2771					31 31	UI
L														
_						0.0292 + 0	0.0020	.1086					30 30	U
L _						0.0240 + 0	0.0018	.0946					31	U
_						0.02.0	0.0020	.00.0					31	
						0.0251 + 0	0.0017	.0985					30 30	U
- L														
_						0.0280 + 0	0.0018	.1070					31 31	ι
L						0.0298 + (0 0018	.1119					31	ι
-						0.0230 + 0	0.0010	.1113					31	
_						0.0305 + 0	0.0018	.1135					30	ι
													30	
						0.0350 +	0.0019	.1251					31 31	ι
L						0.0570	0.0024	1710					20	
						0.0570 + 0	0.0024	.1718					30 30	Į
_						0.0823 + 0	0.0030	.2232					31	ι
-													31	
JT } _		HENKY HOR EIN	IANCIAL LAST DAY			0.0000 - (0.0001						0 -	
-						0.0000 - (0.0001 0.0001						0 -	
-						0.0000 - 0	0.0001 0.0001						0 - 0 -	
						0.0000 - 0	0.0001 0.0001						0 -	
						0.0000 - 0	0.0001 0.0001						0 -	
						0.0000 - 0	0.0001 0.0062						0 -	
						0.0000 0.7540 - (UNCH 0.0571 1	.0000	77			700	0 0 -	
-												700	0 -	-
-						0.0001 0.0001	UNCH UNCH	.0000					15 21	(
-						0.0001 - (0.0003 - (0.0004	.0013 .0040					5 2	
-						0.0015 - 0	0.0007	.0090					3 14	
-						0.0054 - 0	0.0029	.0336 .0590 .0986					9 7 11	
-						0.0165 - (0.0086	.1546 .9965					9 80	
-													176	
						0.0001 0.0001 - 0		.0000 .0011					16 21	(
-						0.0001 - (0.0003 - (0.0010 - (0.0001	.0032					4 5	
						0.0030 - 0 0.0083 - 0	0.0013	.0277					2 14	
						0.0132 - 0 0.0204 - 0	0.0051 0.0073	.1011 .1445					9 7	
-						0.0303 - (0.0434 - (0.0132	.1980 .2605					11 9	
						0.7975 - (0.0437	.9887					73 171	
3 -						0.0001	UNCH	.0008					11	
=						0.0008 - 0 0.0013 - 0	0.0003 0.0005	.0067 .0107					21 4	
-						0.0079 - 0	0.0029	.0251 .0546					5 4	
-						0.0250 - 0	0.0072	.1072					14 1	
-						0.0347 - (0.0470 - (0.0622 - (0.0116	.1864 .2356 .2903					17 9	
-								.9737					64 157	i
-														
-							0.0008	.0021					16 20	
-						0.0078 - 0	0.0022	.0226 .0440 .0785					4 5 4	
-						0.0277 - (0.0062	.1297 .1622					14 1	
-						0.0473 - 0 0.0602 - 0	0.0092 0.0110	.1990 .2397					7 17	
							0.0129	.2840 .9387					9 58	
-													155	
-						0.0012 - 0 0.0057 - 0		.0061 .0259					9 21	
-						0.0077 - (0.0132 - (0.0019 0.0030	.0340 .0549					4 5	
-						0.0219 - (0.0347 - (0.0045 0.0065	.0852 .1258					4 14	
						0.0431 - 0	0.0076	.1504					1	- 1

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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
E7 PUT DEC18			IANCIAL LAST DAY (
275 280						0.0650 - 0.0098 0.0786 - 0.0111 0.6850 - 0.0300	.2084 .2412 .8499				17 9 62	UNCH UNCH UNCH
375 TOTAL						0.8830 - 0.0300	.6499				153	UNCH
JAN19 200						0.0032 - 0.0004	.0122				25	UNCH
225 230						0.0116 - 0.0011 0.0144 - 0.0015	.0394				1 4	UNCH
250 275 300						0.0325 - 0.0029 0.0788 - 0.0068 0.1658 - 0.0127	.0977 .2020 .3473				5 3 27	UNCH UNCH UNCH
TOTAL						0.1030 0.0127	.5 .7 5				65	ONCH
FEB19 200						0.0080 - 0.0005	.0248				33	UNCH
230 250						0.0298 - 0.0018 0.0615 - 0.0034 0.1303 - 0.0067	.0783 .1418 .2510				4 5 3 27 72	UNCH UNCH UNCH
275 300						0.2392 - 0.0108	.2510 .3781				27 72	UNCH
TOTAL MAR19												
200 230						0.0150 - 0.0011 0.0493 - 0.0034 0.0938 - 0.0057	.0415 .1135 .1883				41 4 5	UNCH UNCH UNCH
250 275 300						0.1849 - 0.0083 0.3128 - 0.0122	.3045				2 27	UNCH
TOTAL						0.0122					79	0.1.0.1
APR19 200						0.0176 - 0.0006	.0646				9	UNCH
230 250						0.0574 - 0.0020 0.1117 - 0.0043	.1816 .3102				4 5 18	UNCH
TOTAL MAY19												
200 230						0.0167 - 0.0004 0.0591 - 0.0020	.0654				15 4 5	UNCH
250 TOTAL						0.1183 - 0.0041	.3353				24	UNCH
JUN19 200						0.0185 - 0.0008	.0676				18	UNCH
230 250						0.0613 - 0.0026 0.1175 - 0.0048	.1900 .3199				4 5	UNCH UNCH
TOTAL JUL19											27	
200 230						0.0176 - 0.0011 0.0577 - 0.0033	.0633 .1774				22 4	UNCH UNCH
250 260						0.1103 - 0.0058 0.1474 - 0.0071	.3000 .3736				36 31	UNCH UNCH
TOTAL AUG19											93	
200 230						0.0194 - 0.0010 0.0609 - 0.0030	.0667 .1799				21 4	UNCH UNCH
250 260						0.1140 - 0.0052 0.1509 - 0.0065	.2991 .3701				36 31	UNCH UNCH
TOTAL SEP19											92	
200 230						0.0228 - 0.0008 0.0681 - 0.0024	.0748 .1922				16 3	UNCH UNCH
250 260						0.1243 - 0.0046 0.1628 - 0.0058	.3119 .3821				35 30	UNCH UNCH
TOTAL OCT19											84	
200 230						0.0223 - 0.0013 0.0662 - 0.0034	.0723 .1853				9 3	UNCH UNCH
250 260						0.1204 - 0.0057 0.1575 - 0.0070	.3010 .3693				5 31 48	UNCH
TOTAL NOV19												
200 230						0.0182 - 0.0020 0.0582 - 0.0048	.0604				15 3	UNCH
250 260						0.1094 - 0.0076 0.1442 - 0.0091	.2721 .3360				5 30 53	UNCH
TOTAL DEC19												
200 230						0.0136 - 0.0012 0.0444 - 0.0031 0.0845 - 0.0054	.0443 .1245 .2124				5 3 5	UNCH
250 260						0.0845 - 0.0054 0.1131 - 0.0068	.2124 .2670				31 44	UNCH
TOTAL JAN20												
200 230						0.0107 - 0.0017 0.0415 - 0.0045	.0345 .1087				5 3 8	UNCH UNCH
TOTAL FEB20											0	
200 230						0.0224 UNCH 0.0675 - 0.0006	.0576 .1430				8	UNCH UNCH
TOTAL MAR20											11	
200 230						0.0334 - 0.0002 0.0913 - 0.0012	.0793 .1784				6 3 9	UNCH UNCH
TOTAL											9	
APR20 230 TOTAL						0.1100 + 0.0018	.2785				3 3	UNCH
MAY20						0.1000	2010					
230 TOTAL						0.1098 + 0.0014	.2910				3	UNCH
JUN20 230						0.1022 + 0.0016	.2740				3	UNCH
TOTAL											3	
JUL20 230						0.0952 + 0.0018	.2567				3	UNCH
TOTAL AUG20						0.0000	2522					
230 TOTAL						0.0950 + 0.0019	.2539				3 3	UNCH
SEP20 230						0.0997 + 0.0019	.2629				2	UNCH
TOTAL							- 				2 2	
OCT20	FORMATTO	N CONTAINED IN T	THIS REPORT IS CO	MPTLED FOR THE CO	NVENTENCE OF THE !!	SER AND IS FURNISHED W	ALLHUIL BESDUNG	TRTITTV =	OR ACCURA	CY OR CO	NTENT TT	TS
			ONDITION THAT ERR							ici un col	TILITI II	± J

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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

G	OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT. & PT.	.PRICE .CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME	INTE	O ER
UT		HENRY HUB FIN	IANCIAL LAST DAY	0						VOLUME			
0 L						0.0976	+ 0.0026	.2542				 2 2	
0						0.0792	- 0.0009	.2195					
L 0												2	
L						0.0597	- 0.0009	.1657				 2 2	
1						0.0570	+ 0.0010	.1448					
L 1												2 2	
L						0.0767	+ 0.0007	.1713				 2 2	
1						0.1046	+ 0.0002	.2119				 2 2	
L 1													
L						0.1413	+ 0.0006	.3147				 2 2	
1						0.1419	+ 0.0005	.3265				 2 2	
L 1													
L						0.1321	+ 0.0010	. 3099				 2 2	
1						0.1245	+ 0.0011	.2929				 2 2	
L 1						0 1220	0 0010	2075					
L						0.1230	+ 0.0010	.2875				 2 2	
1						0.1250	+ 0.0009	.2893				 1 1	
L 1						0 1212	+ 0.0010	.2770					
L						0.1213	+ 0.0010	.2770				 1 1	
1 L						0.1069	+ 0.0009	.2476				 1 1	
1						0.0851	+ 0.0010	.1924					
L 2												1 1	
L						0.0837	- 0.0003	.1702				 1 1	
2						0.1023	- 0.0004	.1898				 1	
L 2												1	
L						0.1273	- 0.0005	.2196				 1 1	
2						0.1511	- 0.0025	.3054				 1 1	
L 2													
L						0.1457	- 0.0026	.3124				 1 1	
OPT 8		LLS ARGUS V.W	TI CRUDE OIL AV	G PRICE		0.04	- 0.09	.0779				 250	
L						0.04 0.01	UNCH	.0238				 250 50 300	
8						0.17	- 0.13	.2182				 250	
L						0.01	- 0.02	.0301				 50 300	
8							- 0.17	.3008				 250	
L						0.03	- 0.05	.0760				 50 300	
8						0.38 0.06	- 0.19 - 0.08	.3482				 250 50	
L 8						0.00	0.00	11223				300	
0						0.51 0.11	- 0.16 - 0.09	.3894 .1802				 250 50	
L 8												300	
						0.57 0.14	- 0.12 - 0.06	.4111 .2114				 250 50 300	
L													
ALL		MT BELVIEU ET	HANE 5-DCML (OP	IS)									
8 L						0.00637	+).00197	.9865				 10 10	
8						0.05950	+).01318	.9972					
L							+).00825	.7448				 75 10 85	
8						0.04650	+).00927	.9027				 75	
						0.01572	+).00487	.5205				 10 85	

ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.

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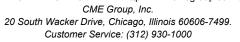
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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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4J CALL MT BELVIEU ETHANE 5-DCML (OPIS) SEP18 2750 0.03888 +).00460 .7795 3200 0.01445 +).00242 .4306 TOTAL OCT18 2750 0.03294 +).00229 .7277 3200 0.01131 +).00110 .3687 TOTAL NOV18 2750 0.03215 +).00188 .6837 3200 0.01214 +).00095 .3619 TOTAL DEC18 2750 0.03200 +).00179 .6530	====	====		75 10	UNCH
2750 0.03888 + 0.00460 7795 3200 0.01445 + 0.00242 .4306 TOTAL OCT18 2750 0.03294 + 0.00229 .7277 3200 0.01131 + 0.00110 .3687 TOTAL NOV18 2750 0.03215 + 0.0188 .6837 3200 0.01214 + 0.00095 .3619 TOTAL DEC18				10	UNCH
2750 0.03294 +).00229 .7277 3200 0.01311 +).00110 .3687 TOTAL NOV18 2750 0.03215 +).00188 .6837 3200 0.01214 +).00095 .3619 TOTAL DEC18				85	UNCH
2750 0.03215 +).00188 .6837 3200 0.01214 +).00095 .3619 TOTAL DEC18				75 10 85	UNCH UNCH
				75 10 85	UNCH UNCH
3200 0.01310 +0.00096 .3608 TOTAL				75 10 85	UNCH
JAN19 3100 0.01748 + J.00080 .4231 TOTAL				75 75	UNCH
FEB19 3100 0.01832 +).00064 .4218 TOTAL MAR19				75 75	UNCH
3100 0.01817 +).00045 .4087 TOTAL APR19				75 75	UNCH
3100 0.01756 +).00027 .3907 TOTAL MAY19 3100 0.01848 +).00028 .3945				75 75	UNCH
3100 0.01848 +).00028 .3945 TOTAL JUN19 3100 0.01989 +).00029 .4042				75 75 75	UNCH
TOTAL JUL19 3100 0.02008 +).00029 .4064				75 75 75	UNCH
TOTAL AUG19 3100 0.02179 +).00030 .4198 TOTAL				75 75	UNCH
SEP19 3100 0.02387 +).00032 .4361 TOTAL				75 75	UNCH
OCT19 3100 0.02603 +).00033 .4525 TOTAL				75 75	UNCH
NOV19 3100 0.02820 +).00034 .4679 TOTAL DEC19				75 75	UNCH
3100 0.03025 +).00035 .4809 TOTAL				75 75	UNCH
4K CALL MT BELVIEU NRM BUTANE 5-DCML (OPIS)					
DEC18			100 100	50 + 50 +	50 50
4K PUT MT BELVIEU NRM BUTANE 5-DCML (OPIS) DEC18			100	50	
9000 0.04757 NEW TOTAL			100 100	50 + 50 +	50 50
4H CALL MT BELVIEU PROPANE 5-DCML (OPIS)					
JUN18 9000 0.00001 UNCH .0020 TOTAL SEP18				50 50	UNCH
9000 0.08522 +).01738 .5572 TOTAL OCT18				2 2	UNCH
0,000				1 100	UNCH UNCH
9000 0.10396 +).02133 .5670 9100 0.10029 +).02136 .5517				53 25	UNCH
9200 0.09686 + 3.02148 .5369 9500 0.08759 + 3.02208 .4949 12000 0.03226 + 3.01312 .2268 TOTAL				25 27 50 281	UNCH UNCH UNCH
				1	UNCH
9000 0.11484 +).02141 .5718				1 54	UNCH
9300				29 50 135	UNCH
7600 0.19075 +).02111 .7696 8600 0.13866 +).02144 .6285				1 1	UNCH UNCH
				1 58	UNCH
9500 0.10588 +).02047 .5144 12000 0.04861 +).01432 .2803 TOTAL				30 50 141	UNCH
7000				1	UNCH
8700 0.13717 +).02031 .6076				1 10	UNCH
9500 0.10901 +).02012 .5126 TOTAL FEB19				6 19	UNCH
8600 0.13939 1.01981 .6033				1 1 1	UNCH UNCH UNCH
8700 0.13560 +).01976 .5913 THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBIL ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY LOCALMIN, DEMAND, OR CAUS	LITY FOR	OR ACCURA			

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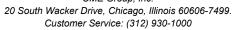
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THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CE.									
,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PR & PT.CH		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
4H CAL	L	MT BELVIEU PR	OPANE 5-DCML (O	PIS)										
9000 9500						0.12491 +0 0.10940 +0		.5565 .5027					9 6 18	UNCH UNCH
TOTAL MAR19														
7600 8600						0.15016 +0 0.11196 +0	0.01798	.6586					1 1	UNCH
8700 9000						0.10890 +0 0.10032 +0	0.01744	.5226					1 8 5	UNCH
9500 TOTAL						0.08788 +)).01624	.4410					16	UNCH
APR19						0.03686 -0	1 00027	.3581					1	UNCH
8600 9000 9500						0.02875 +0 0.02080 +0	0.00014	.2918					4 1	UNCH
TOTAL						0.02000		.2251					6	onen
MAY19 9000						0.02795 -0	0.00007	.2784					3	UNCH
9500 TOTAL						0.02050 +)	0.00002	.2152					1 4	UNCH
OCT19														
7450 TOTAL						0.13662 +)).01//3	.6079					1 1	UNCH
NOV19						0.14147 +)	1 01830	.6123					1	UNCH
7450 TOTAL						0.14147 +3	7.01039	.0123					1	UNCH
DEC19 7450						0.14439 +)	0.01708	.6158					1	UNCH
TOTAL													1	
JAN20 7450						0.14554 +)	0.02511	.6199					1	UNCH
TOTAL													1	
FEB20 7450						0.12427 +0	0.02967	.6034					1 1	UNCH
TOTAL MAR20													1	
7450						0.09614 +0	0.03574	.5608					1 1	UNCH
TOTAL 4H PUT		MT BELVIEU PR	OPANE 5-DCML (OI	PIS)									_	
JUN18 5500						0.00001	UNCH						25	UNCH
6000 TOTAL						0.00001	UNCH	.0001					25 25 50	UNCH
JUL18						0.00001		0002					2.5	
5500 6000						0.00001 0.00004	UNCH UNCH	.0002					25 25 50	UNCH
8500 TOTAL						0.02323 +0	0.00160	.2977					100	UNCH
AUG18 5500						0.00005 +)	1 00003	.0010					25	UNCH
6000 8500						0.00013 + 3	0.00003 0.00056	.0028					25 25 50	UNCH
TOTAL						0.03700	3.00030	. 3230					100	ONCII
SEP18 5500						0.00029 +0	0.00008	.0046					25	UNCH
6000 8500						0.00073 +0 0.05027 -0	0.00001	.0112					25 50	UNCH
TOTAL													100	
OCT18 5500						0.00167 +0		.0179					25	UNCH
6000 6900						0.01317	0.00006 UNCH	.1084					25 100	UNCH
7500 9000						0.02687 -0 0.09651 -0	0.00013 0.00019	.1881 .4329					25 50	UNCH UNCH
TOTAL NOV18													225	
5500 6000						0.00288 +0 0.00587 +0	0.00029 0.00001	.0265 .0499					25 25	UNCH UNCH
7500 9000						0.03476 - 0 0.10740 - 0	0.00003	.2072					25 50	UNCH
TOTAL						0.107.10							125	oe
DEC18 5500						0.00428 +0	0.00018	.0349					25	UNCH
6000 7000						0.00847 +0 0.02621 -0	0.00014	.0628 .1566					25 1	UNCH
7500 9000						0.04122 -0 0.11546 +0		.2193 .4244					30 50	UNCH UNCH
TOTAL													131	
JAN19 5000						0.00309 +0		.0245					35 102	UNCH
7000 7600 7800						0.03207 - 0 0.05228 - 0 0.06054 - 0	0.00026	.1735 .2478 .2741					102 10 10	UNCH
7800 TOTAL		-		== =	-	0.00034 -J	J.00020	.2/41					157	UNCH
FEB19 5000						0.00483 +0	0.00050	.0345					35	UNCH
7000 7800						0.04001 - 0 0.07138 - 0	0.00004	.1968 .2960					101 10	UNCH UNCH
TOTAL													146	
MAR19 5000						0.00836 +3		.0570					35	UNCH
7000 7800						0.05726 - 0 0.09662 - 0).00007).00032	.2615 .3677					101 10	UNCH UNCH
TOTAL APR19													146	
5000						0.00530 +0 0.06613 -0		.0496 .4704					35 10	UNCH UNCH
7800 TOTAL		-	-		-	0.00013 = 3	J. 01001	. 7704					45	UNCH
MAY19 5000						0.00746 +)	0.00037	.0645					35	UNCH
7800						0.07837 -0		.5040					10 45	UNCH
TOTAL JUN19														
5000 7800						0.00890 +0 0.08460 -0	0.00025 0.01824	.0725 .5078					35 10	UNCH UNCH
TOTAL													45	
JUL19 5000						0.00984 -0	0.00012	.0766					35	UNCH
				OMPILED FOR THE CO	SHALL NOT BE MADE	THE BASIS FOR	ANY CLAIM					CY OR CO	NTENT. IT	IS
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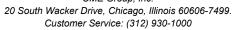
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	GLOBEX	OPEN OUTCRY	GLOBEX	S SETTLEMENT PRI	OPEN OUTCRY	SETT.PRICE		EXER	OPEN	GL0BEX [®]	PNT		OPEN
	OPEN	OPEN RANGE	HIGH/LOW	HIGH/LOW	CLOSE RANGE	& PT.CHGE.	DELTA	CISES	OUTCRY VOLUME	VOLUME	VOLUME	INTE	REST
4H PUT JUL19			ROPANE 5-DCML (C			0.00750 0.01701	5013					10	
7800 TOTAL						0.08758 - 0.01781	.5013					10 45	UNCH
AUG19 5000 7800 TOTAL						0.01112 +).00004 0.08974 -).01807	.0815 .4917					35 10 45	UNCH UNCH
SEP19 5000 7800						0.01202 -).00015 0.09129 -).01790	.0842 .4814					35 10	UNCH UNCH
TOTAL OCT19												45	
5000 7800 TOTAL						0.02250 +).00365 0.13789 -).00170	.1146 .4336					35 10 45	UNCH UNCH
NOV19 5000 7800 TOTAL						0.02397 +).00356 0.14076 -).00112	.1171 .4276					35 10 45	UNCH UNCH
DEC19 5000						0.02490 +0.00318	.1183					35	UNCH
5900 7800 TOTAL						0.04734 UNCH 0.14284 +).00098	.2026 .4224					10 10 55	UNCH
DEC20						0.09699 -).00012	.2785					10	UNCH
6350 7000 TOTAL						0.13131 - 0.00036	.3413					20 30	UNCH
DEC21 6500						0.10613 +0.00595	.3037					10	UNCH
TOTAL												10	
G4 CALL MAR19 250	-	NATURAL GAS 1	1 M CSO FIN			0.276 + 0.006	.5692					3000	UNCH
500 1000						0.220 + 0.008 $0.145 + 0.007$.4169 .2501					3500 1550	UNCH UNCH
1500 TOTAL						0.097 + 0.004	.1590					250 8300	UNCH
G4 PUT MAR19		NATURAL GAS 1	1 M CSO FIN										
0 50						0.023 - 0.002 0.046 - 0.005 0.078 - 0.002	.1395 .2139 .2852					2916 0 1275	UNCH UNCH UNCH
100 250 TOTAL						0.179 - 0.002	.4307					2500 6691	UNCH
TOTAL													
G2 CALL AUG18	-	NATURAL GAS 2				0.012 0.001	2206					500	
50 100 TOTAL						0.012 + 0.001 0.002 UNCH	.3286 .0788					500 500 1000	UNCH
TOTAL													
G3 CALL	_	NATURAL GAS 3	3 M CSO FIN										
OCT18 - 250 - 200						0.055 + 0.007 0.032 + 0.005	.5959 .4085					200 7685	UNCH
TOTAL						0.032 + 0.003	.4003					7885	ONCH
G3 PUT OCT18 - 500		NATURAL GAS	3 M CSO FIN			0.001 UNCH	.0013					8500	UNCH
- 400 - 350						0.001 UNCH 0.004 UNCH	.0276 .0903					200 14085	UNCH
- 300 - 250						0.013 - 0.001 0.030 - 0.004	.2245					6500 1000	UNCH
- 200 TOTAL						0.057 - 0.006	.5914					1000 31285	UNCH
G6 CALL APR19	-	NATURAL GAS 6	6 M CSO FIN										
0 TOTAL						0.051 + 0.002	.4267				500 500	1600 + 1600 +	500 500
G6 PUT APR19		NATURAL GAS 6	6 M CSO FIN										
- 150 - 50						$\begin{array}{cccc} 0.014 & - & 0.001 \\ 0.052 & + & 0.001 \end{array}$.1876 .4482				500	2300 + 1100	500 UNCH
TOTAL											500	3400 +	500
6J CALL	_	NATURAL GAS (OPTION ON CALEND	OAR STRP									
JAN19 2800						0.1254 + 0.0120	.5611					400	UNCH
2850 3000						0.1037 + 0.0104 0.0573 + 0.0064	.4905 .3101					300 1860	UNCH
3250 3500 4000						0.0186 + 0.0025 0.0055 + 0.0008 0.0005 + 0.0001	.1218 .0414 .0044					400 24 114	UNCH UNCH UNCH
TOTAL						0.0003 1 0.0001	.0011					3098	onen
JAN20 2800						0.1009 + 0.0031 0.0414 + 0.0017	.4095 .2187					400 640	UNCH
3000 TOTAL						0.0414 + 0.0017	.2107					1040	UNCH
JAN21 3500						0.0020 + 0.0001	.0168					256	UNCH
4000 TOTAL						0.0001 UNCH	.0010					256 512	UNCH
JAN22 3500 TOTAL						0.0330 + 0.0005	.1255					124 124	UNCH
JAN23 3500						0.0599 + 0.0005	.1843					124	UNCH
TOTAL JAN25												124	
				RRORS OR OMISSIONS	SHALL NOT BE MADE	JSER AND IS FURNISHED THE BASIS FOR ANY CLA	IM, DEMA				ACY OR CO	NTENT. IT	IS

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FINAL

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	LOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	INTE	OPEN EREST
6J CALL JAN25		NATURAL GAS (OPTION ON CALEND	AR STRP				VOLUME			
4000 TOTAL						0.0781 + 0.0005	.1838			 124 124	UNCH
6J PUT JAN19		NATURAL GAS (OPTION ON CALEND	AR STRP							
2400 2500						0.0085 - 0.0015 0.0176 - 0.0029	.0601			 800 3264	UNCH
2600 2750						0.0335 - 0.0049 0.0764 - 0.0090 0.0969 - 0.0106	.1941 .3694 .4388			 1200 1600 600	UNCH UNCH UNCH
2800 TOTAL						0.0303 - 0.0100	.4388			 7464	UNCH
ZR CALL DEC18		NORTHERN ROCK	CIES PIPE OPTION								
3500 3600						0.0099 + 0.0007 0.0072 + 0.0005	.0537 .0403			 372 62	UNCH UNCH
TOTAL										434	
JAN19 2900						0.1510 + 0.0026 0.0900 + 0.0019	.4125 .2766			 124 124	UNCH UNCH
3150 3500 3600						0.0435 + 0.0012 0.0355 + 0.0011	.1509			 372 62	UNCH
TOTAL						0.0333 . 0.0011	.1203			682	o.ve
FEB19 3250						0.1019 + 0.0024	.2602			 112	UNCH
3500 3600						0.0724 + 0.0019 0.0631 + 0.0017	.1939 .1721			 336 56 504	UNCH UNCH
TOTAL DEC19											
3000 3300						0.0250 + 0.0007 0.0109 + 0.0002	.1135 .0549			 62 124 186	UNCH UNCH
TOTAL JAN20										186	
3000 3300						0.0604 UNCH 0.0390 - 0.0002	.1937 .1304			 62 124	UNCH UNCH
TOTAL FEB20										186	
3000 3300						$\begin{array}{ccc} 0.0742 & + \ 0.0046 \\ 0.0503 & + \ 0.0034 \end{array}$.2138 .1512			 58 116	UNCH UNCH
TOTAL										174	
1.6.6411		NAMEY CRUDE () (EUDO) ODTO	(DIN)							
LC CALL AUG18 3000		NYMEX CRODE C	OIL (EURO) OPTS			42.73 + 2.23	1.0000			 150	UNCH
6000 6300						12.76 + 2.21 9.78 + 2.18	.9954 .9895			 5 40	UNCH
6600 6700						6.85 + 2.03 5.91 + 1.94	.9552 .9285			 11 130	UNCH UNCH
6850 6900						4.58 + 1.74 4.16 + 1.66	.8620 .8332 .7624			 100 40	UNCH
7000 7200 7300						3.38 + 1.47 2.09 + 1.06 1.59 + 0.86	.7624 .5843 .4885			 40 10 300	UNCH UNCH UNCH
7500 7500 7800						0.89 + 0.54 0.37 + 0.24	.3151			 30 200	UNCH
7900 8000						$\begin{array}{cccccccccccccccccccccccccccccccccccc$.1129 .0888			 20 20	UNCH UNCH
8100 13000						0.17 + 0.12 0.01 UNCH	.0691 .0019			 15 150	UNCH UNCH
TOTAL SEP18										1261	
3000 5000						41.16 + 1.98 21.21 + 1.97	1.0000 .9984			 20 1000	UNCH UNCH
5500 6000						16.26 + 1.97 11.37 + 1.91	.9877 .9572			 1000 1005	UNCH
6050 6300						10.89 + 1.90 8.55 + 1.80 5.99 + 1.60	.9578 .9128 .8106			 1000 40 11	UNCH UNCH UNCH
6600 6650 6700						5.60 + 1.56 5.22 + 1.51	.7881 .7644			 100 30	UNCH
6900 7000						3.84 + 1.29 3.26 + 1.20	.6560 .5956			 40 140	UNCH UNCH
7200 7500						2.27 + 0.98 1.23 + 0.65	.4728			 5 50	UNCH
7800 7900						0.64 + 0.38 0.52 + 0.32 0.42 + 0.26	.1794 .1498 .1243			 20 20 20	UNCH UNCH UNCH
8000 8100 13000						0.42 + 0.26 0.34 + 0.21 0.01 UNCH	.1029			 25 20	UNCH
TOTAL						2.7611				4546	
OCT18 6000						10.35 + 1.65 8.62 + 1.58	.9080 .8570			 20 20	UNCH UNCH
6200 6400 6600						7.00 + 1.47 5.54 + 1.34	.7896 .7117			 30 11	UNCH
6700 6800						4.88 + 1.28 4.26 + 1.20	.6667 .6196			 20 45	UNCH UNCH
6900 7000						3.71 + 1.13 3.19 + 1.04	.5704 .5208			 5 40	UNCH UNCH
7200 7300						2.32 + 0.87 1.96 + 0.78 1.65 + 0.70	.4223 .3753 .3310			 50 10 45	UNCH UNCH UNCH
7400 7500 7600						1.65 + 0.70 1.38 + 0.62 1.15 + 0.54	.2896			 45 5 5	UNCH
7700 7800						$ \begin{array}{r} 0.96 + 0.47 \\ 0.80 + 0.41 \end{array} $.2177 .1876			 60 20	UNCH UNCH
7900 8100						0.67 + 0.35 0.47 + 0.25	.1615 .1189			 60 15	UNCH UNCH
TOTAL NOV18										461	
6000 6200						9.98 + 1.43 8.37 + 1.36	.8595 .8034			 20 20	UNCH UNCH
6400						6.89 + 1.28 5.54 + 1.17	.7350 .6613			 30 11	UNCH
6600						4.94 + 1.12 4.36 + 1.05	.6205 .5788 .5362			 20 45	UNCH
6600 6700 6800											
6600 6700 6800 6900 7000				 		3.84 + 1.00 3.36 + 0.93 2.53 + 0.79	.4934			 5 40 30	UNCH UNCH UNCH
6600 6700 6800 6900 7000 7200 7300 7400		 		 	 	3.36 + 0.93 2.53 + 0.79 2.18 + 0.72 1.87 + 0.65	.4934 .4091 .3688 .3303			 40 30 10 45	UNCH UNCH UNCH UNCH
6600 6700 6800 6900 7000 7200 7300						3.36 + 0.93 2.53 + 0.79 2.18 + 0.72	.4934 .4091 .3688			 40 30 10	UNCH UNCH UNCH

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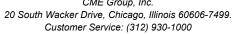
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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EX DELTA CI		PNT OLUME	INTE	OPEN EREST
LC CALI	L	NYMEX CRUDE C	OIL (EURO) OPTS	(PHY)							
7900 8100						0.85 + 0.37 0.62 + 0.28	. 1701	 		20 15	UNCH UNCH
TOTAL DEC18										401	
2000						48.25 + 1.43 38.32 + 1.43	. 5555	 		50 610	UNCH
3000 5700 6000						12.26 + 1.30 9.78 + 1.22	.8890	 		200 1300	UNCH
6200						8.27 + 1.17 6.87 + 1.09	.7629	 		20 1030	UNCH
6400 6500 6600						6.23 + 1.07 5.61 + 1.03	.6641	 		50 21	UNCH
6700 6800						5.03 + 0.98 4.49 + 0.93		 		20 45	UNCH
6900 7000						3.98 + 0.87 3.52 + 0.81	.5153	 		5 20	UNCH
7200 7300						2.73 + 0.72 2.39 + 0.67		 		30 10	UNCH
7400 7500						2.08 + 0.61 1.80 + 0.55	.3321	 		45	UNCH
7600 7700						1.56 + 0.50 1.35 + 0.46	.2686	 		30 60	UNCH
7800 7900						1.16 + 0.41 1.00 + 0.37	.2136	 		20 20	UNCH
8100 12000						0.75 + 0.28 0.01 UNCH	.1494	 		15 50	UNCH
13000 TOTAL						0.01 UNCH		 		610 4266	UNCH
JAN19											
6700 6800						5.17 + 0.88 4.66 + 0.85		 		20 10	UNCH UNCH
7000 7200						3.73 + 0.76 2.94 + 0.67	.3986	 		15 1	UNCH UNCH
7400 7500						2.29 + 0.57 2.02 + 0.54	.3053	 		15 20	UNCH UNCH
7700 8000						1.56 + 0.45 1.05 + 0.33	.1836	 		40 10	UNCH UNCH
8300 8800						0.72 + 0.24 0.40 + 0.14	. 255.	 		40 20	UNCH UNCH
10000 11000						$ \begin{array}{r} 0.13 + 0.04 \\ 0.06 + 0.02 \end{array} $.02.0	 		50 100	UNCH UNCH
TOTAL										341	
FEB19 6700						5.23 + 0.77		 		20	UNCH
6800 7000						4.74 + 0.76 3.84 + 0.69	.4556	 		10 15	UNCH
7200 7400						3.07 + 0.62 2.44 + 0.54	.3344	 		1 15	UNCH
7500 7700						2.17 + 0.50 1.70 + 0.42	.2559	 		20 40	UNCH UNCH
8000 8300						1.18 + 0.32 0.83 + 0.24	.1433	 		10 40	UNCH
8800 10000						$ \begin{array}{r} 0.48 + 0.15 \\ 0.17 + 0.05 \end{array} $.0333	 		20 50	UNCH
11000 TOTAL						0.08 + 0.03	.0160	 		100 341	UNCH
MAR19											
6700 6800						5.31 + 0.71 4.81 + 0.68	.5382 .5079	 		20 10	UNCH
7000 7200						3.91 + 0.60 $3.15 + 0.53$		 		15 1	UNCH UNCH
7400 7500						2.53 + 0.47 2.26 + 0.44		 		15 20	UNCH UNCH
7700 8000						1.79 + 0.37 1.27 + 0.28	.2576 .1967			40 10	UNCH UNCH
8300 8800						0.92 + 0.23 0.55 + 0.16	.1503 .0961	 		40 20	UNCH UNCH
10000 11000						$ \begin{array}{r} 0.20 + 0.06 \\ 0.09 + 0.02 \end{array} $.0374 .0175	 		50 100	UNCH UNCH
TOTAL										341	
APR19 7200						3.26 + 0.50	. 50 . 5	 		1	UNCH
7500 8000						2.37 + 0.42 1.37 + 0.27 1.00 + 0.23	.2021			20 10 40	UNCH
8300 8800						1.00 + 0.23 0.61 + 0.16 0.23 + 0.07	.1018	 		20 50	UNCH UNCH UNCH
10000 11000						0.11 + 0.03	.0205			100 241	UNCH
TOTAL MAY19										241	
7200 7500						3.39 + 0.48 2.49 + 0.41	.3839 .3094	 		1 20	UNCH UNCH
8000 8300						1.47 + 0.27 1.09 + 0.23	.2075			10 40	UNCH
8800 10000						0.67 + 0.16 0.26 + 0.08	.1073	 		20 50	UNCH
11000						0.13 + 0.04	.0232			100 241	UNCH
TOTAL JUN19										271	
7200 7500						3.49 + 0.46 2.58 + 0.39	.3826 .3104			1 20	UNCH UNCH
8000 8300						1.57 + 0.28 1.17 + 0.23	.2128			10 40	UNCH
8800 10000						0.73 + 0.17 0.28 + 0.08	.1126	 		20 50	UNCH UNCH
11000						0.14 + 0.04	.0246	 		100 241	UNCH
TOTAL JUL19											
7200 10000						3.54 + 0.43 0.31 + 0.08	. 37 3 1	 		1 50	UNCH UNCH
11000 TOTAL						0.16 + 0.05	.0271	 		100 151	UNCH
AUG19											
7200 10000						3.59 + 0.41 0.34 + 0.09		 		1 50	UNCH UNCH
11000 TOTAL						0.18 + 0.05	.0296	 		100 151	UNCH
SEP19											
7200 10000						3.64 + 0.40 0.36 + 0.08	.0560			1 50	UNCH UNCH
11000 TOTAL						0.20 + 0.06	.0320	 		100 151	UNCH
OCT19						3 73 2	27.44			_	
7200 10000						3.72 + 0.38 0.40 + 0.08	.0602	 		1 50	UNCH
11000 TOTAL						0.22 + 0.06	.0344	 		100 151	UNCH
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THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CE.										
,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT & PT			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN EREST
LC CAL	L	NYMEX CRUDE C	OIL (EURO) OPTS	(PHY)											
7200 10000 11000 TOTAL						3.78 0.43 0.24	+	0.37 0.08 0.06	.3732 .0631 .0366					1 50 100 151	UNCH UNCH UNCH
DEC19 6000 6500 7000					 	9.33 6.67 4.55	+	0.45 0.44 0.42	.6344 .5268 .4163					1500 310 200	UNCH UNCH UNCH
7200 8000						3.85 2.00 0.46	+ + +	0.37 0.20 0.08	.3731 .2307 .0661					210 50	UNCH UNCH UNCH
10000 10500 11000						0.40 0.34 0.25	++	0.07	.0500					200 100	UNCH
TOTAL						0.23		0.03	.0377					2571	ONCH
DEC20 5000 6500						13.92 5.97	++	0.22 0.17	.7642 .4745					116 3366	UNCH UNCH
10000 12500						0.79 0.23	+	0.11	.0939					60 10000	UNCH
15000						0.08	+	0.01	.0115					30 13572	UNCH
TOTAL DEC21						1 26		0.02	1475						IINCII
9000 TOTAL						1.36	+	0.03	.1475					40 40	UNCH
DEC22 7000						3.97	+	0.07	.3452					31	UNCH
10000 10500						0.88 0.74	+	0.03	.0991 .0842					410 490	UNCH UNCH
TOTAL DEC23														931	
6500 10000						5.43 0.98		0.05 0.03	.4195 .1062					1628 70	UNCH UNCH
TOTAL LC PUT		NVMEY CRUDE C	OIL (EURO) OPTS	(BUV)										1698	
AUG18 2300		NYMEX CRUDE C	JIL (EURO) OPIS	(PHY)		0.01		UNCH						20	UNCH
3000 4800						0.01 0.01 0.01		UNCH						160 1	UNCH
5100 5500						0.01 0.01		UNCH	.0000					300 300	UNCH
5600 5650						0.01 0.01		UNCH UNCH	.0002					10 1000	UNCH UNCH
5800 6000						0.01 0.01		UNCH 0.02	.0011					5 10	UNCH
6500 13000						0.07 57.19	-	0.12 2.22	.0334 .9980					10 150	UNCH
TOTAL SEP18														1966	
2300 3000						0.01 0.01		UNCH UNCH						20 30	UNCH UNCH
4000 4800						0.01 0.01		UNCH UNCH	.0005					2200 1	UNCH UNCH
5000 5600						0.01 0.05	-	UNCH 0.01	.0015 .0154					1000 10	UNCH UNCH
5800 6000						0.08 0.14	-	0.03	.0249					5 10 10	UNCH
6500 13000						0.56 58.60	-	0.30 1.97	.1511 .9977					20 3306	UNCH
TOTAL OCT18															
2300 2500						0.01 0.01		UNCH						20 20	UNCH
3000 4800						0.01 0.03 0.04	-	UNCH 0.01 0.02	.0074					10 1 20	UNCH UNCH UNCH
5000 5300 6400						0.09 1.07	_	0.02	.0221					10 10	UNCH
TOTAL														91	
NOV18 2300						0.01 0.01		UNCH	.0000					20 20	UNCH
2500 3000 4800						0.01 0.01 0.07	_	UNCH UNCH 0.02	.0015					10 1	UNCH UNCH UNCH
5000 5300						0.11 0.20	_	0.02	.0229					20 10	UNCH
6400 TOTAL						1.70	-	0.34	.2649					10 91	UNCH
DEC18						0.01		UNCU	.0000					E0.	UNCU
2000 2300 2500						0.01 0.01 0.01		UNCH UNCH UNCH	.0000					50 20 20	UNCH UNCH UNCH
3000 4300						0.01 0.06	_	UNCH 0.01	.0015 .0108					610 100	UNCH UNCH
4600 4800						0.10 0.14	_	0.02	.0182 .0255					100 201	UNCH UNCH
5000 5300						0.20 0.35	_	0.04	.0361					20 20	UNCH
5500 6400 12000						0.51 2.30 51.01	-	0.09 0.33 1.42	.0859 .3024 .9974					50 10 50	UNCH UNCH UNCH
13000						60.93	-	1.43	.9993					610 1861	UNCH
TOTAL JAN19															
4500 4600						0.14 0.17	-	0.02	.0228					20 10	UNCH
5800 TOTAL						1.31	-	0.16	.1729					1 31	UNCH
FEB19 4500						0.21		0.03	.0312					20	UNCH
4600 5800						0.25 1.76	-	0.04 0.16	.0368					10 1	UNCH UNCH
TOTAL MAR19														31	
4500 4600						0.31 0.37	-	0.04 0.04	.0416 .0488					20 10	UNCH UNCH
5800 TOTAL						2.18	-	0.15	.2249					1 31	UNCH
APR19						2.65	_	0.08	.2457					1	HNCH
5800 TOTAL					-	2.05	-	0.00	.243/					1	UNCH
MAY19 5800						3.02	-	0.12	.2606					1	UNCH
TOTAL														1	
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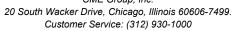


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(GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PR & PT.CH	ICE GE.		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN EREST
LC PUT JUN19			OIL (EURO) OPTS (F	•											
5000 5500 5800						1.42 - 2.51 - 3.34 -	0.	. 12 . 15 . 19	.1334 .2147 .2727					800 2100 1	UNCH UNCH UNCH
TOTAL														2901	
5800 TOTAL						3.70 -	0.	. 17	.2854					1 1	UNCH
AUG19 5800						4.02 -	0.	. 16	.2959					1 1	UNCH
TOTAL SEP19						4.31 -	0	. 15	.3050						UNCH
5800 TOTAL OCT19						4.31	0.	.13	. 3030					1 1	UNCH
5800 TOTAL						4.60 -	0.	. 15	.3130					1 1	UNCH
NOV19 5800						4.86 -	0.	. 15	.3201					1 1	UNCH
TOTAL DEC19						0.04	•	03	0700						
4000 5800 TOTAL						0.84 - 5.11 -		. 02 . 14	.0709 .3262					240 1 241	UNCH
.0.7.2															
LO CALL AUG18	-	NYMEX CRUDE C	OIL OPTIONS (PHY)												
2500 5000 5100			#22.96B/ #21.97B/	#22.96B/ #21.97B/		47.76 + 22.76 + 21.76 +	2.	.23 .23	1.0000 1.0000 1.0000	2				1 144 1 -	UNCH UNCH 2
5150 5200			#21.46B/ #20.96B/ #20.46B/	#21.46B/ #20.96B/ #20.46B/		21.26 + 20.76 +	2.	. 23 . 23 . 23	1.0000 1.0000 1.0000	3 2 7				0 - 0 - 46 -	3 2
5250 5300 5350			#19.96B/ #19.46B/	#19.96B/ #19.46B/		20.26 + 19.76 + 19.26 +	2.	. 23 . 23	1.0000 1.0000 1.0000	7 7 3				46 - 1 - 0 -	7 7 3
5400 5450			#18.96B/ #18.46B/	#18.96B/ #18.46B/		18.76 + 18.26 +	2.	.23 .23	.9999 .9999	6 21				50 - 2 -	6 21
5500 5550			#17.96B/ #17.47B/	#17.96B/ #17.47B/		17.76 + 17.26 +	2.	.23	.9999	328 12				332 - 2 -	328 12
5600 5650			#16.96B/ #16.46B/	#16.96B/ #16.46B/		16.76 + 16.26 +	2.	. 23	.9999	51				167 555 -	UNCH 51
5700 5750 5800			#15.96B/ #15.46B/ #14.96B/	#15.96B/ #15.46B/ #14.96B/		15.76 + 15.26 + 14.76 +	2.	. 23 . 23 . 22	.9998 .9997 .9995	 54				757 835 460 -	UNCH UNCH 54
5850 5900			#14.46B/ #13.96B/	#14.46B/ #13.96B/		14.26 + 13.76 +	2.	.22	.9992					106 178	UNCH
5950	12.97 11.09	12.97 11.09	#13.46B/12.80, #12.96B/11.04,	#13.46B/12.80, #12.96B/11.04,		13.26 + 12.76 +	2.	.21	.9983			1 4		394 + 2234 -	1
6050	10.37 10.10	10.37 10.10	#12.54B/10.35 #12.05B/9.98A	#12.54B/10.35 #12.05B/9.98A		12.27 + 11.77 +	2.	.22 .21	.9965 .9950			16 25		431 496 +	UNCH 13
6150 6200	9.38	9.38	#11.55B/9.36A #10.97B/	#11.55B/9.36A #10.97B/		11.27 + 10.77 +	2.	. 20 . 19	.9908 .9904			18 1		1211 1733	UNCH
6250 6300	9.03 9.01	9.03 9.01	#10.47B/ #10.03B/8.90A	#10.47B/ #10.03B/8.90A #9.54B/8.77A		10.28 + 9.78 + 9.29 +	2.	. 19 . 18 . 17	.9900 .9855 .9810			2 1 1		806 2154 + 454	UNCH 1 UNCH
6350 6400 6450	8.00 8.15	8.00 8.15	#9.54B/8.77A #9.04B/7.88 8.55B/7.80A	#9.04B/7.88 8.55B/7.80A		8.80 + 8.31 +	2.	. 16 . 14	.9801			31 2		2212 - 1139 -	30 1
6500 6550	6.58	6.58 5.35	0 075 /6 50	8.07B/6.58 7.60/5.35 7.10B/4.97A		7.82 + 7.34 +	2.	.11	.9665 .9611			50 30		10026 - 2429 -	41 22
6600 6650	5.02 5.08	5.02 5.08	7.10B/4.97A 6.63B/5.08	6.63B/5.08		6.86 + 6.38 +	2.	.05	.9518 .9388			183 29		4601 - 3011 -	19 8
6700 6750	4.12 3.67	4.12 3.67	7.60/5.35 7.10B/4.97A 6.63B/5.08 6.16B/4.09A 5.70B/3.67 5.24/3.29	6.16B/4.09A 5.70B/3.67		5.92 + 5.46 +	1.	. 95 . 89	.9254			147 50		6244 - 2014 -	23 37
6800 6850	3.29 3.04 2.71	3.29 3.04	5.24/3.29 4.81B/2.95A 4.38B/2.60A 3.98B/2.29A 3.59B/1.99 3.22B/1.73 2.87/1.50A 2.56/1.28 2.29/1.07 2.01/0.92 1.77/0.79 1.35/0.56 1.17/0.45 1.02/0.36 0.88B/0.32	5.24/3.29 4.81B/2.95A		5.01 + 4.57 +	1.	. 82 . 73	.8881			407 213		7710 - 2953 -	180 130
6900 6950 7000	2.71 2.42 2.01	2.71 2.42 2.01	4.38B/2.60A 3.98B/2.29A 3.50B/1.00	4.81B/2.95A 4.38B/2.60A 3.98B/2.29A 3.59B/1.99		4.16 + 3.76 + 3.38 +	1.	. 66 . 57 . 47	.8332 .7997 .7624			1182 65 1642	1000	3091 - 1734 - 14600 -	638 51 633
7050 7050 7100	1.79 1.51	1.79 1.51	3.22B/1.73 2.87/1.50A	3.22B/1.73 2.87/1.50A		3.02 + 2.68 +	1.	. 37 . 26	.7217			166 2935		2349 - 7849 -	63 882
7150 7200	1.28 1.11	1.28 1.11	2.56/1.28 2.29/1.07	2.56/1.28 2.29/1.07		2.37 + 2.09 +	1.	.16	.6321 .5843			1060 3775	150	3401 - 6918 -	438 848
7250 7300	0.97 0.84	0.97 0.84	2.01/0.92 1.77/0.79	2.01/0.92 1.77/0.79		1.83 + 1.59 +	0.	. 96 . 86	.5363 .4885			3077 4912	100 1100	3270 + 8935 +	828 1014
7350 7400	0.67	0.67 0.60	1.55/0.67 1.35/0.56	1.55/0.67 1.35/0.56		1.39 + 1.20 +	0.	. 78 . 69	.4422			1678 2927	1000	2536 - 5101 -	177 277
7450 7500	0.48 0.36 0.32	0.48 0.36 0.32	1.1//0.45 1.02/0.36	1.17/0.45 1.02/0.36 0.88B/0.32		1.04 + 0.89 + 0.77 +	0.	. 62 . 54 . 48	.3553 .3151 .2793			1191 9745 1516	1000	1533 - 9677 - 1919 +	83 1323 94
7550 7600 7650	0.24	0.24 0.25	0.88B/0.32 0.78/0.24 0.66/0.24A 0.58/0.19 0.50/0.17A	0.78/0.24 0.66/0.24A		0.66 + 0.57 +	0.	. 42 . 36	.2458			4291 2372	200	4900 + 6515 -	781 195
7700 7750	0.22 0.18	0.22 0.18	0.58/0.19 0.50/0.17A	0.58/0.19 0.50/0.17A		0.50 + 0.43 +	0.	.33	.1917			4531 1942	700	9690 + 3278 +	335 937
7800 7850	0.15 0.11	0.15 0.11	0.44/0.14 0.39/0.11 0.34/0.09 0.30/0.10	0.44/0.14 0.39/0.11		0.37 + 0.32 +	0.	.24 .21	.1466 .1283			3584 772		10608 + 1313 -	619 97
7900 7950	0.09	0.09 0.10	0.34/0.09 0.30/0.10	0.34/0.09 0.30/0.10		0.28 + 0.25 +	0.	. 18 . 17	.1129			1907 1443		7709 + 2437 -	48 93
8000 8050	0.07 0.08 0.07	0.07 0.08 0.07	0.26/0.07 0.23/0.08 0.20/0.07	0.26/0.07 0.23/0.08 0.20/0.07		0.22 + 0.19 + 0.17 +	0.	. 15 . 13 . 12	.0888 .0774 .0691			7539 1099 1867	800 100	13098 + 1214 - 4914 +	2439 110 99
8100 8150 8200	0.06 0.05	0.07 0.06 0.05	0.19/0.06 0.16/0.05	0.19/0.06 0.16/0.05		0.17 + 0.15 + 0.13 +	0.	. 12 . 10 . 09	.0610			1066 2274		1961 + 10305 -	247 42
8250 8300	0.04	0.04 0.04	0.14 p/0.04	0.14B/0.04 0.13/0.04		0.12 + 0.10 +	0.	.09 .07	.0486			2891 2070		3228 + 5128 +	1179 184
8350 8400	0.06 0.03	0.06 0.03	0.13/0.04 0.11/0.06 0.10/0.03 0.09/0.03 0.08/0.02	0.11/0.06 0.10/0.03		0.09 + 0.08 +	0.	.06 .06	.0369 .0327			825 1572		1960 - 6303 +	53 154
8450 8500	0.03	0.03 0.02	0.09/0.03 0.08/0.02	0.09/0.03 0.08/0.02		0.07 + 0.06 +	0.	.05	.0287			448 1973		1675 - 7976 +	185 12
8550 8600 8650	0.02 0.04 0.04	0.02 0.04 0.04	0.07/0.02	0.07/0.02 0.06/0.04 0.05/0.04		0.05 + 0.05 + 0.04 +	0.	.04 .04 .03	.0209 .0203 .0166			363 502 638		2883 + 2640 - 1470 +	122 174 142
8650 8700 8750	0.04 0.02 0.01	0.04 0.02 0.01	0.05/0.04 0.05/0.04 0.05/0.02 0.05/0.01 0.04/0.01 0.03/0.01 0.03/0.01 0.02/0.01	0.05/0.02 0.05/0.01		0.04 + 0.04 + 0.03 +	0.	.03 .02	.0162			343 142		1506 + 951 +	30 81
8800 8850	$0.01 \\ 0.01$	0.01 0.01	0.04/0.01 0.03/0.01	0.04/0.01 0.03/0.01		0.03 + 0.02 +	0. 0.	.02 .01	.0122			1471 312		2700 + 1411 +	761 133
8900 8950	$0.01 \\ 0.01$	0.01 0.01	0.03/0.01 0.02/0.01	0.03/0.01 0.02/0.01		0.02 + 0.02 +	0. 0.	.01 .01	.0083 .0081			626 266		1021 + 972 +	84 91
9000 9050	0.01	0.01 0.01	0.02/0.01 0.02B/0.01	0.02/0.01 0.02B/0.01 0.01/0.01		0.02 + 0.01	UN	.01 NCH	.0080			330 125		1942 + 882 +	283 125
9100 9150 9200	0.01 0.01 0.01	0.01 0.01 0.01	0.028/0.01 0.01/0.01 0.01/0.01 0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01 0.01/0.01 0.01/0.01		0.01 0.01 0.01	UN	NCH NCH NCH	.0035 .0029 .0023			480 543 370		2819 + 749 + 1453 +	27 517 276
9250 9250 9300	0.01 0.01 0.01	0.01 0.01 0.01	0.01/0.01 0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01 0.01/0.01		0.01 0.01 0.01	UN	NCH NCH	.0019			11 10		738 + 605 +	7 10
9350 9400						0.01 0.01	UN UN	NCH NCH	.0012 .0010			190		581 1556 -	UNCH 190
9450 9500	0.01	0.01	0.01/0.01	0.01/0.01		0.01 0.01 0.01	UN	NCH NCH	.0008			1 		705 1448 + 673	UNCH 1 UNCH
9550 9600						0.01		NCH NCH	.0005				CY OR CO	668	UNCH

CME Group, Inc.





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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	CE.					
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
LO CAL AUG18	.L	NYMEX CRUDE O	OIL OPTIONS (PHY)							
9650 9700						0.01 UNCH 0.01 UNCH	.0003			586 UNCH 464 UNCH
9750 9800						0.01 UNCH 0.01 UNCH	.0002			506 UNCH 543 UNCH
9850 9900						0.01 UNCH 0.01 UNCH	.0001			584 UNCH 38 UNCH
9950 10000						0.01 UNCH 0.01 UNCH	.0000			41 UNCH 876 UNCH
10050 10100						0.01 UNCH 0.01 UNCH	.0000			103 UNCH 656 UNCH
10150 10200						0.01 UNCH 0.01 UNCH	.0000			301 UNCH 483 UNCH
10250 10300						0.01 UNCH 0.01 UNCH	.0000			68 UNCH 553 UNCH
10350 10400						0.01 UNCH 0.01 UNCH	.0000			563 UNCH 976 UNCH
10450 10500						0.01 UNCH 0.01 UNCH	.0000			722 UNCH 958 UNCH
10550 10600						0.01 UNCH 0.01 UNCH				97 UNCH 76 UNCH
10650 10700						0.01 UNCH 0.01 UNCH				3 UNCH 500 UNCH
10750 10800						0.01 UNCH 0.01 UNCH				2 UNCH 1 UNCH
11000 11050						0.01 UNCH 0.01 UNCH				413 UNCH 3 UNCH
11100 11150						0.01 UNCH 0.01 UNCH				1 UNCH 4 UNCH
11550 11600						0.01 UNCH 0.01 UNCH				500 UNCH 50 UNCH
TOTAL									88282 6150	274058 + 4135
SEP18 4500						26.26 + 1.98	.9999			1 UNCH
4700 4750			21.98B/	21.988/		24.26 + 1.98 23.76 + 1.98	.9997			350 UNCH 1250 UNCH
4800 4850			21.71B/ 20.95B/	21.71B/ 20.95B/		23.26 + 1.98 22.76 + 1.98	.9995 548			769 - 548 2100 UNCH
4900 4950			20.70B/ 20.21B/	20.70B/ 20.21B/		22.26 + 1.98 21.76 + 1.98	.9991 74 .9988			651 - 74 500 UNCH
5000 5050			19.67B/ 19.22B/	19.67B/ 19.22B/		21.26 + 1.98 20.76 + 1.98	.9984			3788 UNCH 1301 UNCH
5100 5150			18.47B/ 18.21B/	18.47B/ 18.21B/		20.26 + 1.98 19.76 + 1.98	.9974			1400 UNCH 200 UNCH
5200 5250			17.71B/ 17.16B/	17.71B/ 17.16B/		19.26 + 1.98 18.76 + 1.97	.9940 .9938 5			2207 UNCH 606 - 5
5300 5350			16.71B/ 16.21B/	16.71B/ 16.21B/		18.26 + 1.97 17.77 + 1.98	.9936			3 UNCH 201 UNCH
5400 5450			15.72B/ 15.23B/	15.72B/ 15.23B/		17.27 + 1.97 16.77 + 1.97	.9907 100 .9904			66 - 100 11 UNCH
5500 5550		 	16.36B/ 15.86B/	16.36B/ 15.86B/		16.28 + 1.97 15.78 + 1.96	.9877			8483 UNCH 1415 UNCH
5600 5650	15.37	15.37 	15.37/14.91A 14.87B/	15.37/14.91A 14.87B/		15.29 + 1.97 14.79 + 1.96	.9845 .9816 9811		1	3083 UNCH 1400 UNCH
5700 5750			14.36B/ 13.87B/	14.36B/ 13.87B/		14.30 + 1.96 13.81 + 1.95	.9780			1818 UNCH 2636 UNCH
5800 5850	12.46	12.46	13.39B/ 12.95B/12.46 12.46B/11.86A	13.39B/ 12.95B/12.46		13.32 + 1.95 12.83 + 1.94 12.34 + 1.93	.9718		10	2388 UNCH 855 - 10 735 - 3
5900 5950	12.39	12.39	11.98B/	12.46B/11.86A 11.98B/		11.86 + 1.93	.9629			1273 UNCH
6000 6050	10.48	10.48	11.50B/10.45 11.02B/	11.50B/10.45 11.02B/		11.38 + 1.92 10.90 + 1.91	.9513		8 2	14550 - 2 574 UNCH
6100 6150			10.54B/ 10.09B/	10.54B/ 10.09B/		10.42 + 1.89 9.95 + 1.87	.9390		20	1654 UNCH 3082 + 20
6200 6250			9.62B/ 9.16B/	9.62B/ 9.16B/ 8.70B/		9.48 + 1.85 9.02 + 1.83	.9200		2	3746 UNCH 3556 - 2
6300 6350			8.70B/ 8.25B/ 7.80B/6.78A	8.25B/ 7.80B/6.78A		8.56 + 1.81 8.11 + 1.78	.9092 .8964 .8818		7	5755 UNCH 2901 - 7
6400 6450	6.79	6.79 6.95	7.37B/ 6.95/6.38A	7.37B/ 6.95/6.38A		7.66 + 1.74 7.23 + 1.71	.8669		76 14 16	5300 UNCH 1191 UNCH 17022 - 8
6500 6550	6.95 4.64	4.64	6.52B/ 6.12B/4.47A	6.52B/ 6.12B/4.47A		6.81 + 1.68 6.39 + 1.64 5.99 + 1.60	.8488 .8305 .8094		16 29 170	3316 - 25
6600 6650	4.88 4.86	4.88 4.86	5.72B/4.88 5.34B/4.85	5.72B/4.88 5.34B/4.85		5.99 + 1.60 5.60 + 1.56 5.22 + 1.51	.7871		6 441	3232 - 86 6089 - 4 4925 - 288
6700 6750	4.24	4.24 3.23	4.97B/4.20A 4.65/3.23	4.97B/4.20A 4.65/3.23		4.86 + 1.46 4.51 + 1.41	.7386		142 113	2675 - 18 5233 - 74
6800 6850 6900	3.56 2.80	3.56 2.80	4.28B/3.56 3.96B/2.80	4.28B/3.56 3.96B/2.80		4.17 + 1.36 3.85 + 1.30	.6838		22 147	1838 - 12 2087 - 45
6950 7000	2.45	2.45 2.13	3.65B/2.37A 3.38/2.13	3.65B/2.37A 3.38/2.13		3.55 + 1.25 3.26 + 1.20	.6257		22 300 1339 1050	1729 + 297 20047 - 585
7050 7100	1.95 1.77	1.95 1.77	3.08/1.92A 2.84/1.72A	3.08/1.92A 2.84/1.72A		2.99 + 1.14 2.74 + 1.09	.5649 .5341		519 1128	2553 + 276 7406 + 362
7150 7200	1.74 1.36	1.74 1.36	2.58B/1.70A 2.35B/1.35	2.58B/1.70A 2.35B/1.35		2.50 + 1.04 2.27 + 0.98	.5034 .4728		1306 806 150	1767 + 639 5588 - 100
7250 7300	1.39 1.13	1.39 1.13	2.14B/1.33A 1.95/1.07A	2.14B/1.33A 1.95/1.07A		2.06 + 0.92 1.87 + 0.87	.4426 .4133		145 371	1900 - 32 3304 + 117
7350 7400	0.99	0.99 0.90	1.76B/0.94A 1.61/0.82	1.76B/0.94A 1.61/0.82		1.69 + 0.81 $1.52 + 0.75$.3846		296 959	1245 + 175 1782 + 205
7450 7500	0.76 0.67	0.76 0.67	1.44/0.73A 1.30/0.65A	1.44/0.73A 1.30/0.65A		$ \begin{array}{r} 1.37 + 0.70 \\ 1.23 + 0.65 \end{array} $.3298 .3041		420 2319 1600	941 + 195 11045 - 422
7550 7600	0.63	0.63 0.53	1.16B/0.63 1.06/0.50A	1.16B/0.63 1.06/0.50A		1.11 + 0.60 0.99 + 0.55	.2803		102 600 1000	507 + 2 2945 + 7
7650 7700	0.57 0.41	0.57 0.41	0.95/0.57 0.86/0.39A	0.95/0.57 0.86/0.39A		$ \begin{array}{r} 0.89 + 0.51 \\ 0.80 + 0.46 \end{array} $.2355		338 1012 200	652 - 22 2748 - 195
7750 7800	0.40	0.40 0.29	0.75/0.40 0.68/0.29	0.75/0.40 0.68/0.29		$ \begin{array}{rrrr} 0.71 + 0.41 \\ 0.64 + 0.38 \end{array} $.1961 .1794		846 508	1527 - 77 1878 + 2
7850 7900	0.31 0.28	0.31 0.28	0.61B/0.30 0.56/0.28	0.61B/0.30 0.56/0.28		$ \begin{array}{r} 0.57 + 0.34 \\ 0.52 + 0.32 \end{array} $.1629 .1498		247 511	369 + 13 1823 - 14
7950 8000	0.30 0.19	0.30 0.19	0.50/0.28 0.46/0.19	0.50/0.28 0.46/0.19		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.1352 .1243		155 3068 2000	383 + 64 13642 - 801
8050 8100	0.24 0.21	0.24 0.21	0.40B/0.24 0.38/0.21	0.40B/0.24 0.38/0.21		$ \begin{array}{r} 0.38 + 0.24 \\ 0.34 + 0.21 \end{array} $.1135 .1029		51 126	805 + 1 675 + 67
8150 8200	0.17 0.12	0.17 0.12	0.33B/0.17 0.31/0.11	0.33B/0.17 0.31/0.11		$ \begin{array}{rrrr} 0.31 & + & 0.20 \\ 0.28 & + & 0.18 \end{array} $.0944 .0860		120 455	500 + 32 2039 + 263
8250 8300	0.10 0.09	0.10 0.09	0.27B/0.10 0.26/0.09	0.27B/0.10 0.26/0.09		$ \begin{array}{r} 0.26 + 0.17 \\ 0.24 + 0.16 \end{array} $.0798 .0738		290 300	659 + 58 489 UNCH
8350 8400	0.16 0.10	0.16 0.10	0.23B/0.16 0.21/0.10	0.23B/0.16 0.21/0.10		$ \begin{array}{r} 0.22 + 0.15 \\ 0.20 + 0.13 \end{array} $.0679 .0621		470 134	492 + 172 515 + 26
8450 8500	0.10	0.10	0.19B/ 0.17/0.10	0.19B/ 0.17/0.10		$ \begin{array}{rrrr} 0.18 & + & 0.12 \\ 0.17 & + & 0.12 \end{array} $.0564 .0530		11 373	801 + 3 3329 - 9
8550 8600	$0.16 \\ 0.11$	0.16 0.11	0.16/0.14A 0.14/0.11	0.16/0.14A 0.14/0.11		$ \begin{array}{r} 0.15 + 0.10 \\ 0.14 + 0.10 \end{array} $.0474		117 308	268 - 6 600 + 277
8650 8700	0.10 0.05	0.10 0.05	0.13B/0.10 0.12/0.05	0.13B/0.10 0.12/0.05		$ \begin{array}{r} 0.13 + 0.09 \\ 0.12 + 0.09 \end{array} $.0410		44 367	187 - 12 795 + 17
8750 8800	0.05	0.05 0.03	0.11/0.05 0.10/0.03	0.11/0.05 0.10/0.03		$ \begin{array}{r} 0.11 + 0.08 \\ 0.10 + 0.07 \end{array} $.0348		141 182 350	460 - 15 1705 + 371
8850 8900	0.09 0.08	0.09 0.08	0.09/0.09 0.09/0.07	0.09/0.09 0.09/0.07		0.09 + 0.07 0.08 + 0.06	.0288		14 705 1000	764 + 3 1639 + 717
8950 9000	0.03	0.03 0.03	0.08/0.03 0.07/0.03	0.08/0.03 0.07/0.03		0.07 + 0.05 0.07 + 0.05	.0230		8 310	133 - 2 1640 - 6
9050 9100	0.05	0.05 0.05	0.06B/0.05 0.07/0.05	0.06B/0.05 0.07/0.05		0.06 + 0.04 0.06 + 0.05	.0197		395 9	1009 + 296 332 + 6
9150 9200	0.03 0.03 0.02	0.03 0.03 0.02	0.05/0.03 0.05/0.03 0.04B/0.02	0.05/0.03 0.05/0.03 0.04B/0.02		0.05 + 0.04 $0.05 + 0.04$ $0.04 + 0.03$.0165 .0162 .0134		152 251 301	409 + 89 823 + 251 395 + 292
9250 9300			0.04B/	0.04B/		0.04 + 0.03	.0132			835 UNCH
THE IN	I-UKMATIO	IN CONTAINED IN	IHIS KEPORT IS CO	DWLTTED LOK THE COV	NVENTENCE OF THE	USER AND IS FURNISHED	WITHOUT RESPONS	TRITILA E	UK ACCURACY OR C	UNIENI. IT IS

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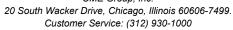
FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX	OPEN OUTCRY GLOBEX OPEN OUTCRY OPEN RANGE HIGH/LOW HIGH/LOW			OPEN OUTCRY	SETT.PRICE		EXER	OPEN	GL0BEX [©]	PNT	OPEN
	OPEN	OPEN RANGE	HIGH/LOW		CLOSE RANGE	& PT.CHGE.	DELTA	CISES	OUTCRY VOLUME	VOLUME		INTEREST
LO CAL SEP18			OIL OPTIONS (PHY)									
9350 9400	0.03	0.03	0.03/0.03 0.03B/	0.03/0.03 0.03B/		$ \begin{array}{r} 0.03 + 0.02 \\ 0.03 + 0.02 \end{array} $.0103 .0101			200		231 + 199 331 UNCH
9450 9500	0.02	0.02	0.03B/0.02 0.02B/	0.03B/0.02 0.02B/		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0100			20 100		667 + 20 369 + 4
9550 9600	0.02	0.02	0.02B/ 0.02/0.02	0.02B/ 0.02/0.02		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0070			10		174 UNCH 221 + 10
9650 9700	0.02 0.02	0.02 0.02	0.02/0.02 0.02/0.02	0.02/0.02 0.02/0.02		0.02 + 0.01 0.02 + 0.01	.0068			265 1		266 + 264 65 UNCH
9750 9800	0.01	0.01	0.01/0.01	0.01/0.01		0.02 + 0.01 0.01 UNCH	.0066 .0036 .0032			36		377 UNCH 759 + 36 120 UNCH
9850 9900	0.01 0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH 0.01 UNCH	.0032			5 150		120 UNCH 372 UNCH 156 + 146
9950 10000 10050	0.01 0.01 0.01	0.01 0.01 0.01	0.01/0.01 0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH 0.01 UNCH	.0024			218 495		462 - 179 996 + 482
10100 10150	0.01	0.01	0.01/0.01	0.01/0.01		0.01 UNCH 0.01 UNCH	.0016			3		247 + 3 58 UNCH
10200 10250						0.01 UNCH 0.01 UNCH	.0012					40 UNCH 66 UNCH
10300 10350						0.01 UNCH 0.01 UNCH	.0009					42 UNCH 376 UNCH
10400 10450						0.01 UNCH 0.01 UNCH	.0007					3 UNCH 1 UNCH
10500 10550						0.01 UNCH 0.01 UNCH	.0005 .0004					3433 UNCH 5 UNCH
10600 10650						0.01 UNCH 0.01 UNCH	.0004					2 UNCH 250 UNCH
10700 10750						0.01 UNCH 0.01 UNCH	.0003					55 UNCH 25 UNCH
10800 10850						0.01 UNCH 0.01 UNCH	.0002					237 UNCH 153 UNCH
10900 11000						0.01 UNCH 0.01 UNCH	.0001					275 UNCH 1613 UNCH
11050 11100 11150						0.01 UNCH 0.01 UNCH 0.01 UNCH	.0001 .0000 .0000					30 UNCH 201 UNCH 2 UNCH
11500 11500 11550						0.01 UNCH 0.01 UNCH	.0000					117 UNCH 21 UNCH
12000 12500						0.01 UNCH 0.01 UNCH						35 UNCH 100 UNCH
13000 15000						0.01 UNCH 0.01 UNCH						500 UNCH 265 UNCH
TOTAL										25383	7650	250013 + 2691
OCT18 4900			19.468/	19.468/		20.96 + 1.79	.9902					1 UNCH
5000 5200			18.56B/ 16.57B/	18.56B/ 16.57B/		19.97 + 1.79 17.99 + 1.78	.9878					141 UNCH 1 UNCH
5250 5300			16.08B/ 16.34B/ 15.68B/	16.08B/ 16.34B/ 15.68B/		17.50 + 1.78 $17.01 + 1.78$ $15.54 + 1.76$.9802 .9778 .9703					1 UNCH 1 UNCH 54 UNCH
5450 5500 5550	13.09	13.09	15.19B/ 15.19B/ 14.71B/13.09	15.19B/ 14.71B/13.09		$\begin{array}{r} 15.54 + 1.76 \\ 15.06 + 1.76 \\ 14.58 + 1.76 \end{array}$.9659			1		114 UNCH 2 UNCH
5600 5650			14.71B/13.09 14.22B/ 13.74B/	14.71B/13.09 14.22B/ 13.74B/		14.09 + 1.74 13.62 + 1.75	.9585					52 UNCH 65 UNCH
5700 5750	11.56	11.56	13.27B/11.47A 12.79B/	13.27B/11.47A 12.79B/		13.14 + 1.73 12.67 + 1.73	.9475			1		19 UNCH 24 UNCH
5800 5850			12.32B/ 11.86B/	12.32B/ 11.86B/		12.20 + 1.71 11.73 + 1.70	.9361			11 		29 + 11 806 UNCH
5900 5950			11.40B/ 10.94B/	11.40B/ 10.94B/		$ \begin{array}{r} 11.27 + 1.68 \\ 10.81 + 1.67 \end{array} $.9210 .9125			9		264 UNCH 1784 + 6
6000 6050	8.88	8.88	10.50/8.77A 10.05B/	10.50/8.77A 10.05B/		$ \begin{array}{r} 10.36 + 1.65 \\ 9.92 + 1.64 \end{array} $.9025 .8911			10 		2832 - 2 120 UNCH
6100 6150			9.61B/ 9.18B/	9.61B/ 9.18B/		9.48 + 1.62 9.05 + 1.60	.8796 .8679					568 UNCH 254 UNCH
6200 6250	7.15 	7.15 	8.75B/7.12A 8.33B/	8.75B/7.12A 8.33B/		8.62 + 1.57 8.21 + 1.56	.8537					217 UNCH 92 UNCH
6300 6350			7.92B/ 7.52B/ 7.13B/	7.92B/ 7.52B/ 7.13B/		7.80 + 1.53 $7.40 + 1.50$ $7.01 + 1.47$.8239 .8073			1		1132 - 1 237 UNCH 2739 - 11
6400 6450	5.01	5.01	6.75B/ 6.42/4.92A	6.75B/ 6.42/4.92A		7.01 + 1.47 $6.63 + 1.44$ $6.26 + 1.41$.7896 .7710 .7515			15 92		2739 - 11 722 UNCH 4695 - 17
6500 6550 6600	4.52	4.52	6.01B/ 5.67B/4.49A	6.01B/ 5.67B/4.49A		5.90 + 1.38 5.55 + 1.35	.7312			30		1258 UNCH 3059 - 10
6650 6700	4.53	4.53 3.96	5.33B/4.53 5.00B/3.90A	5.33B/4.53 5.00B/3.90A		5.21 + 1.31 4.89 + 1.28	.6888			10 284		1322 UNCH 2410 - 184
6750 6800	4.27 3.22	4.27 3.22	4.68B/4.26A 4.37B/3.21A	4.68B/4.26A 4.37B/3.21A		$\begin{array}{r} 4.57 + 1.24 \\ 4.27 + 1.20 \end{array}$.6429 .6191			2 41		366 UNCH 2724 - 5
6850 6900	2.96 3.17	2.96 3.17	4.08B/2.90A 3.80B/3.14A	4.08B/2.90A 3.80B/3.14A 3.55B/2.89		$\begin{array}{r} 3.98 + 1.16 \\ 3.70 + 1.12 \end{array}$.5949 .5704			167 275	1150	394 + 41 3158 + 1006
6950 7000	2.89	2.89 2.30	3.55B/2.89 3.30/2.24A	3.30/2.24A		3.44 + 1.08 3.19 + 1.04	.5457 .5208			224 134	750 475	1654 + 862 7727 - 22
7050 7100	2.08 1.87	2.08 1.87	3.05B/2.04A 2.84/1.87	3.05B/2.04A 2.84/1.87		2.95 + 0.99 2.73 + 0.95	.4958			27 228		253 UNCH 2470 - 113
7150 7200	1.74 1.78 1.51	1.74 1.78 1.51	2.60B/1.69A 2.40B/1.76A	2.60B/1.69A 2.40B/1.76A 2.21B/1.50A		2.52 + 0.91 $2.32 + 0.87$ $2.14 + 0.83$.4466 .4223 .3988			125 284 9		571 + 50 3564 + 126 143 UNCH
7250 7300 7350	1.27 1.24	1.31 1.27 1.24	2.21B/1.50A 2.26/1.26A 1.86B/1.22	2.26/1.26A		1.96 + 0.78 1.80 + 0.74	.3753			346 70		143 UNCH 1325 + 57 253 + 48
7400 7450	1.06	1.06 1.20	1.72/1.02 1.57B/1.20	1.86B/1.22 1.72/1.02 1.57B/1.20		1.65 + 0.70 1.51 + 0.66	.3310			569 11		771 - 247 271 + 2
7500 7550	0.80 0.81	0.80 0.81	1.44/0.80	1.44/0.80 1.31/0.81		$ \begin{array}{r} 1.38 + 0.62 \\ 1.26 + 0.58 \end{array} $.2896			393 19		12416 + 80 238 + 5
7600 7650	0.69 0.76	0.69 0.76	1.31/0.81 1.21/0.68A 1.10/0.74A	1.21/0.68A 1.10/0.74A		$ \begin{array}{r} 1.15 + 0.54 \\ 1.05 + 0.51 \end{array} $.2516 .2341			192 20		749 + 14 314 - 7
7700 7750	0.60	0.60 0.50	1.00/0.60 0.91B/0.49	1.00/0.60 0.91B/0.49		0.96 + 0.47 $0.88 + 0.44$.2177 .2026			45 43		2331 + 30 148 + 1
7800 7850	0.48	0.48 0.43	0.85/0.48 0.76B/0.43	0.85/0.48 0.76B/0.43		$ \begin{array}{r} 0.80 + 0.41 \\ 0.73 + 0.37 \end{array} $.1876			102 70		583 + 18 288 + 40
7900 7950	0.38	0.38	0.71/0.38 0.65/0.36 0.61/0.32	0.71/0.38 0.65/0.36		0.67 + 0.35 0.61 + 0.32	.1615			89 29		253 + 34 91 UNCH
8000 8050	0.32	0.32 0.30	0.61/0.32 0.55/0.30 0.50/0.36	0.61/0.32 0.55/0.30 0.50/0.36		$ \begin{array}{r} 0.56 + 0.30 \\ 0.52 + 0.28 \\ 0.47 + 0.25 \end{array} $.1386			2943 35 29		2932 - 725 206 - 3
8100 8150	0.36 0.30 0.21	0.36 0.30 0.21	0.45B/0.29A 0.43/0.21	0.50/0.36 0.45B/0.29A 0.43/0.21		$ \begin{array}{r} 0.47 + 0.25 \\ 0.44 + 0.24 \\ 0.40 + 0.22 \end{array} $.1189 .1116 .1028			29 16 76		241 + 9 20 - 5 222 + 11
8200 8250 8300	0.21 0.20 0.19	0.21 0.20 0.19	0.43/0.21 0.38/0.20 0.36/0.19	0.43/0.21 0.38/0.20 0.36/0.19		$ \begin{array}{r} 0.40 + 0.22 \\ 0.37 + 0.21 \\ 0.34 + 0.19 \end{array} $.0957			34 303		292 + 3 593 - 30
8350 8400	0.20	0.19 0.20 0.23	0.33/0.20 0.31/0.23	0.33/0.20 0.31/0.23		0.34 + 0.19 0.31 + 0.17 0.29 + 0.16	.0818			43 64		253 UNCH 180 + 4
8450 8500	0.20 0.13	0.20 0.13	0.28B/0.20 0.26B/0.13	0.28B/0.20 0.26B/0.13		0.26 + 0.14 $0.24 + 0.13$.0698			23 195		65 + 22 5254 + 157
8550 8600	0.23	0.23 0.16	0.24B/0.21A 0.22B/0.16	0.24B/0.21A 0.22B/0.16		$ \begin{array}{r} 0.23 + 0.13 \\ 0.21 + 0.12 \end{array} $.0618			1 44		$ \begin{array}{ccccccccccccccccccccccccccccccccccc$
8650 8700	0.16	0.16	0.20B/ 0.19/0.16	0.20B/ 0.19/0.16		$ \begin{array}{rrrr} 0.19 & + & 0.11 \\ 0.18 & + & 0.10 \end{array} $.0521 .0493			22		98 UNCH 435 + 22
8750 8800	0.10	0.10	0.17B/ 0.16B/0.10	0.17B/ 0.16B/0.10		$ \begin{array}{rrrr} 0.17 & + & 0.10 \\ 0.15 & + & 0.08 \end{array} $.0465 .0417			 55		158 UNCH 314 + 49
8850 8900	0.08	0.08	0.15B/0.08 0.13B/	0.15B/0.08 0.13B/		$\begin{array}{cccccccccccccccccccccccccccccccccccc$.0390			5 		19 - 1 806 UNCH
8950 9000	0.05	0.05	0.13B/ 0.12/0.05	0.13B/ 0.12/0.05		0.12 + 0.07 $0.11 + 0.06$.0338			27 1311		122 UNCH 3483 - 12
9050 9100	0.10	0.10	0.11B/ 0.10/0.10	0.11B/ 0.10/0.10		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0307			3		274 UNCH 14 - 1
9150 9200	0.09	0.09	0.09B/ 0.09/0.08A 0.08B/	0.09B/ 0.09/0.08A 0.08B/		$ \begin{array}{r} 0.09 + 0.05 \\ 0.08 + 0.05 \\ 0.08 + 0.05 \end{array} $.0256 .0231 .0227			1		42 UNCH 163 - 1 81 UNCH
9250 THE IN ACCEPT	FORMATIO	ON CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE	USER AND IS FURNISHED W	/ITHOUT F		BILITY FO	OR ACCURA		

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin







FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		OPEN INTEREST
LO CAL	.L	NYMEX CRUDE 0	IL OPTIONS (PHY)						VOLUME			
9300 9350 9400	0.04	0.04	0.07B/ 0.07B/0.04 0.06B/	0.07B/ 0.07B/0.04 0.06B/		$\begin{array}{cccc} 0.07 & + & 0.04 \\ 0.07 & + & 0.04 \\ 0.06 & + & 0.04 \end{array}$.0202 .0200 .0175			1 4		272 UNCH 83 - 1 179 + 4
9450 9500 9550 9600	0.05 0.04	0.05 0.04	0.06B/ 0.05B/ 0.05/0.05 0.04/0.04	0.06B/ 0.05B/ 0.05/0.05 0.04/0.04		$\begin{array}{cccccccccccccccccccccccccccccccccccc$.0172 .0147 .0146 .0120			271 125		75 UNCH 235 UNCH 275 + 271 335 + 125
9650 9700 9750 9800	0.03	0.03	0.04B/ 0.03B/ 0.03B/ 0.03/0.03	0.04B/ 0.03B/ 0.03B/ 0.03/0.03	 	$\begin{array}{ccccc} 0.04 & + & 0.02 \\ 0.04 & + & 0.03 \\ 0.04 & + & 0.03 \\ 0.03 & + & 0.02 \end{array}$.0119 .0117 .0116 .0091			 1		6 UNCH 352 UNCH 14 UNCH 210 UNCH
9850 9900 9950 10000	0.02	 0.02	0.03B/ 0.02B/ 0.02B/ 0.02/0.02	0.03B/ 0.02B/ 0.02B/ 0.02/0.02		$\begin{array}{cccccccccccccccccccccccccccccccccccc$.0090 .0089 .0088 .0062			 57		37 UNCH 112 UNCH 1 UNCH 407 + 41
10050 10100 10150			0.02B/ 	0.02B/ 		$\begin{array}{cccc} 0.02 & + & 0.01 \\ 0.02 & + & 0.01 \\ 0.02 & + & 0.01 \end{array}$.0062 .0061 .0060					2 UNCH 21 UNCH 8 UNCH
10200 10250 10300 10350	0.01 0.01 0.01	0.01 0.01 0.01	0.01/0.01 0.01/*0.01 0.01/*0.01	0.01/0.01 0.01/*0.01 0.01/*0.01		0.02 + 0.01 0.02 + 0.01 0.02 + 0.01 0.01 UNCH	.0060 .0059 .0059 .0032			1 49 100		401 UNCH 171 + 1 80 + 49 102 + 100
10400 10450 10500 10550	0.01	0.01 0.01 0.01	0.01/0.01 0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH 0.01 UNCH 0.01 UNCH	.0029 .0026 .0023 .0021			146 50 5		300 + 133 416 + 50 454 + 5 355 UNCH
10600 10700 10800						0.01 UNCH 0.01 UNCH 0.01 UNCH	.0019 .0015 .0012					3 UNCH 353 UNCH 8 UNCH
11000 11150 11500 11550				 		0.01 UNCH 0.01 UNCH 0.01 UNCH 0.01 UNCH	.0008 .0005 .0002 .0002					131 UNCH 6 UNCH 37 UNCH 167 UNCH
11650 11700 11800 12500						0.01 UNCH 0.01 UNCH 0.01 UNCH 0.01 UNCH	.0001 .0001 .0001					304 UNCH 251 UNCH 45 UNCH 162 UNCH
TOTAL NOV18						0.01 Onen	.0000			10021	2375	90851 + 2121
4700 4750 5000	18.85	 18.85	20.91B/ 20.41B/ 18.85/18.85	20.91B/ 20.41B/ 18.85/18.85		$\begin{array}{r} 22.23 + 1.62 \\ 21.74 + 1.62 \\ 19.27 + 1.60 \end{array}$.9873 .9854 .9770			 4		1 UNCH 1 UNCH 147 UNCH
5150 5300 5350 5500			16.50B/ 15.07B/ 15.32B/ 14.65B/	16.50B/ 15.07B/ 15.32B/ 14.65B/		17.81 + 1.60 16.36 + 1.58 15.88 + 1.57 14.46 + 1.55	.9690 .9591 .9552 .9402					1 UNCH 2 UNCH 1 UNCH 340 UNCH
5550 5600 5650 5700			#14.19B/ 13.72B/ 13.25B/ 12.81B/	#14.19B/ 13.72B/ 13.25B/ 12.81B/		13.99 + 1.54 $13.53 + 1.53$ $13.07 + 1.52$ $12.62 + 1.52$.9346 .9289 .9218 .9134					4 UNCH 6 UNCH 6 UNCH 6 UNCH
5750 5800 5850			12.35B/ 11.91B/ 11.47B/	12.35B/ 11.91B/ 11.47B/		12.17 + 1.51 $11.72 + 1.49$ $11.28 + 1.48$.9050 .8965 .8868					77 UNCH 1061 UNCH 1046 UNCH
5900 5950 6000 6050	10.16	10.16 	11.03B/10.16 10.60B/ 10.18B/ 9.76B/	11.03B/10.16 10.60B/ 10.18B/ 9.76B/		$\begin{array}{r} 10.85 + 1.47 \\ 10.42 + 1.45 \\ 10.00 + 1.44 \\ 9.58 + 1.42 \end{array}$.8770 .8660 .8540 .8419			1 		40 UNCH 84 UNCH 1899 UNCH 29 UNCH
6100 6150 6200	8.54 8.15 	8.54 8.15 	9.35B/8.54 8.95B/8.15 8.55B/	9.35B/8.54 8.95B/8.15 8.55B/		9.17 + 1.40 8.77 + 1.38 8.38 + 1.36	.8287 .8147 .8005			3 1		92 - 2 342 + 1 493 UNCH
6250 6300 6350 6400	 5.84	 5.84	8.17B/ 7.79B/ 7.41B/ 7.05B/5.68A	8.17B/ 7.79B/ 7.41B/ 7.05B/5.68A		7.99 + 1.34 7.62 + 1.32 7.25 + 1.30 6.89 + 1.27	.7848 .7689 .7523 .7350			 1		191 UNCH 200 UNCH 157 UNCH 393 - 1
6450 6500 6550 6600	5.68 5.15 	5.68 5.15 	6.69B/5.56A 6.35B/5.04A 6.02B/ 5.69B/	6.69B/5.56A 6.35B/5.04A 6.02B/ 5.69B/		6.54 + 1.25 6.20 + 1.23 5.87 + 1.20 5.55 + 1.18	.7171 .6990 .6799 .6604			15 2 		1168 + 15 5291 - 1 794 UNCH 1784 UNCH
6650 6700 6750	4.24	4.24 	5.38B/ 5.07B/4.24 4.78B/	5.38B/ 5.07B/4.24 4.78B/		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.6407 .6203 .5996			212 14		67 UNCH 884 - 30 93 - 14
6800 6850 6900 6950	3.64	3.64	4.49B/ 4.22B/ 3.96B/3.58A 3.71B/	4.49B/ 4.22B/ 3.96B/3.58A 3.71B/		$\begin{array}{r} 4.37 + 1.06 \\ 4.10 + 1.03 \\ 3.84 + 0.99 \\ 3.60 + 0.97 \end{array}$.5788 .5576 .5362 .5148			199 300		309 UNCH 160 UNCH 1003 + 66 537 + 292
7000 7050 7100 7150	2.60 3.01	2.60 3.01 	3.47B/2.60 3.24B/ 3.02B/2.71A 2.82B/	3.47B/2.60 3.24B/ 3.02B/2.71A 2.82B/	 	3.36 + 0.93 3.14 + 0.90 2.93 + 0.86 2.73 + 0.83	.4934 .4721 .4510 .4301			320 43 		2053 - 28 92 UNCH 352 - 8 333 UNCH
7200 7250 7300	2.50 1.98	2.50 1.98	2.62B/2.34A 2.43B/ 2.26B/1.97A	2.62B/2.34A 2.43B/ 2.26B/1.97A		$\begin{array}{cccccccccccccccccccccccccccccccccccc$.4095 .3887 .3688			21 33		431 + 1 193 UNCH 827 + 33
7350 7400 7450 7500	2.09 1.68	2.09 1.68	2.10B/1.86A 1.94B/ 1.80B/ 1.68/1.47A	2.10B/1.86A 1.94B/ 1.80B/ 1.68/1.47A		$\begin{array}{r} 2.02 + 0.68 \\ 1.87 + 0.65 \\ 1.73 + 0.62 \\ 1.60 + 0.59 \end{array}$.3493 .3303 .3120 .2943			301 101		211 + 1 666 + 59 281 UNCH 6930 - 18
7550 7600 7650 7700	1.41 1.28 1.10	1.41 1.28 1.10	1.54B/ 1.42B/1.26A 1.31B/1.16A 1.21/1.07A	1.54B/ 1.42B/1.26A 1.31B/1.16A 1.21/1.07A		$\begin{array}{r} 1.48 + 0.56 \\ 1.37 + 0.53 \\ 1.26 + 0.50 \\ 1.17 + 0.48 \end{array}$.2773 .2612 .2450 .2307			6 204 144		32 UNCH 221 - 2 347 + 101 298 + 119
7750 7800 7850	0.89 0.92	0.89 0.92	1.12B/0.89 1.07/0.91A 0.95B/	1.12B/0.89 1.07/0.91A 0.95B/		$\begin{array}{ccccc} 1.08 & + & 0.45 \\ 1.00 & + & 0.42 \\ 0.92 & + & 0.40 \end{array}$.2165 .2033 .1902			21 262 		43 - 15 427 + 245 173 UNCH
7900 7950 8000 8050	0.73 0.81 0.42	0.73 0.81 0.42	0.88B/0.73 0.81/0.72A 0.75B/0.42 0.70B/	0.88B/0.73 0.81/0.72A 0.75B/0.42 0.70B/	 	0.85 + 0.37 0.78 + 0.34 0.72 + 0.32 0.67 + 0.30	.1781 .1662 .1554 .1459			4 101 394		98 UNCH 213 + 1 634 - 7 137 UNCH
8100 8150 8200	0.38 0.30 0.43	0.38 0.30 0.43	0.64B/0.38 0.60B/ 0.55/0.30 0.51B/0.43	0.64B/0.38 0.60B/ 0.55/0.30 0.51B/0.43		0.62 + 0.28 0.57 + 0.26 0.53 + 0.24 0.50 + 0.23	.1366 .1273 .1193 .1129			8 31 105		109 + 5 46 UNCH 101 - 24 375 + 28
8250 8300 8350 8400	0.45 0.33	0.45 0.33	0.49/0.43A 0.45B/ 0.42B/0.33	0.49/0.43A 0.45B/ 0.42B/0.33		$\begin{array}{cccc} 0.46 & + & 0.21 \\ 0.43 & + & 0.20 \\ 0.40 & + & 0.19 \end{array}$.1051 .0988 .0926			16 2		192 UNCH 95 UNCH 97 + 1
8450 8500 8550 8600	0.39 0.22 0.26	0.39 0.22 0.26	0.39/0.35A 0.37/0.22 0.34B/ 0.32B/0.26	0.39/0.35A 0.37/0.22 0.34B/ 0.32B/0.26		$\begin{array}{cccccccccccccccccccccccccccccccccccc$.0880 .0819 .0774 .0730			25 514 204		137 UNCH 288 + 98 16 UNCH 213 + 94
8650 8700 8750	0.18	0.18	0.30B/ 0.28/0.18 0.26B/	0.30B/ 0.28/0.18 0.26B/		$ \begin{array}{rrrrr} 0.29 & + & 0.14 \\ 0.27 & + & 0.13 \\ 0.25 & + & 0.12 \end{array} $.0687 .0643 .0601			7 		7 UNCH 17 + 4 95 UNCH
8800 8850 8900 8950	0.22 0.11 0.14 0.21	0.22 0.11 0.14 0.21	0.24B/0.22 0.23B/0.11 0.22/0.14 0.21/0.19A	0.24B/0.22 0.23B/0.11 0.22/0.14 0.21/0.19A	 	$\begin{array}{rrrrr} 0.24 & + & 0.12 \\ 0.22 & + & 0.11 \\ 0.21 & + & 0.10 \\ 0.20 & + & 0.10 \end{array}$.0575 .0533 .0508 .0483			1 10 53 7		235 + 1 168 UNCH 207 + 1 59 + 2
9000 9050 9100	0.11 0.19	0.11 0.19 	0.19/0.11 0.19/0.17A 0.17B/	0.19/0.11 0.19/0.17A 0.17B/		$\begin{array}{cccc} 0.19 & + & 0.10 \\ 0.18 & + & 0.09 \\ 0.17 & + & 0.09 \end{array}$.0459 .0436 .0412			46 6 		350 + 16 60 + 6 199 UNCH
9150 9200 9250 9300	0.14	 0.14	0.16B/ 0.15B/ 0.14B/ 0.14/0.13A	0.16B/ 0.15B/ 0.14B/ 0.14/0.13A	 	$\begin{array}{ccccc} 0.16 & + & 0.08 \\ 0.15 & + & 0.08 \\ 0.14 & + & 0.07 \\ 0.13 & + & 0.06 \end{array}$.0389 .0366 .0344 .0321			200 6		100 UNCH 28 UNCH 99 - 200 7 + 6
9350 9400 9450			0.12B/ 0.12B/ 0.11B/	0.12B/ 0.12B/ 0.11B/		$\begin{array}{cccc} 0.12 & + & 0.06 \\ 0.12 & + & 0.06 \\ 0.11 & + & 0.06 \end{array}$.0299 .0295 .0273					4 UNCH 36 UNCH 46 UNCH
						0.11 + 0.06 USER AND IS FURNISHED W THE BASIS FOR ANY CLAI					CY OR CO	TIO UNCH







Side 53

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	IOMINAL	PRICE IS THE	PREVIOUS DAY'S S	SETTLEMENT PRIC	E.					
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA CI	KER OPEN ISES OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	
LO CAL NOV18	.L	NYMEX CRUDE (OIL OPTIONS (PHY)							
9600	0.08	0.08	0.09B/0.08	0.09B/0.08 0.09B/		0.09 + 0.04			1	
9650 9700			0.09B/ 0.08B/	0.08B/		0.09 + 0.05 0.08 + 0.04	.0202 -			1 UNCH
9750 9800			0.08B/ #0.07B/	0.08B/ #0.07B/		$ \begin{array}{r} 0.08 + 0.04 \\ 0.07 + 0.03 \end{array} $.0178 -			8 UNCH 2 UNCH
9900 9950			#0.07B/ #0.06B/	#0.07B/ #0.06B/		$ \begin{array}{rrrr} 0.07 + 0.04 \\ 0.06 + 0.03 \end{array} $				1 UNCH 5 UNCH
10000 10050			0.06B/ 0.05B/	0.06B/ 0.05B/		0.06 + 0.03 0.06 + 0.04	.0151 -			
10100			0.05B/ 0.04B/	0.05B/ 0.04B/		0.05 + 0.03	.0128 -			2 UNCH
10200 10250			0.04B/	0.04B/		0.05 + 0.03 $0.04 + 0.02$.0104 -			13 UNCH 25 UNCH
10300 10400			0.04B/ #0.03B/	0.04B/ #0.03B/		$ \begin{array}{r} 0.04 + 0.02 \\ 0.04 + 0.03 \end{array} $.0102 -			3 UNCH 5 UNCH
10500 10700			0.03B/ #0.02B/	0.03B/ #0.02B/		$ \begin{array}{rrrr} 0.03 & + & 0.02 \\ 0.03 & + & 0.02 \end{array} $				30 UNCH 2 UNCH
10800			0.02B/ 0.02B/	0.02B/ 0.02B/		0.02 + 0.01 0.02 + 0.01	.0054 -			3 UNCH 1 UNCH
10900 11000			'			0.02 + 0.01	.0052 -			135 UNCH
11050 11100						$ \begin{array}{rrrr} 0.02 + 0.01 \\ 0.02 + 0.01 \end{array} $.0051 -			1 UNCH 5 UNCH
11150 11200						0.01 UNCH 0.01 UNCH	.0020			1 UNCH 4 UNCH
11400 11700						0.01 UNCH 0.01 UNCH	.0010			3 UNCH 4 UNCH
TOTAL						0.01 GNCH	.0011		3950	37983 + 846
DEC18 2000						48.61 + 1.44	1.0000 -			3 UNCH
3500			 27.42B/	 27.42B/		33.61 + 1.44	.9986 -			1 UNCH
4000 4100			26.35B/26.16A	26.35B/26.16A		27.61 + 1.44	.9926 -			100 UNCH
4150 4200			25.94B/	25.94B/		27.11 + 1.44 26.61 + 1.44	.9909 -			3 UNCH
4400 4500			 22.41B/22.16A	 22.41B/22.16A		24.62 + 1.43 23.62 + 1.42				2 0.1
4550			21.94B/21.67A 21.42B/21.17A	21.94B/21.67A 21.42B/21.17A		23.13 + 1.42 22.64 + 1.43	.9834 -			1 UNCH
4600 4650			20.95B/20.68A	20.95B/20.68A		22.14 + 1.42	.9799 -			650 UNCH
4700 4750			20.44B/20.19A 19.95B/19.69A	20.44B/20.19A 19.95B/19.69A		21.65 + 1.42 21.16 + 1.41	.9763 -			2756 UNCH
4800 4850			19.46B/19.22A 18.97B/18.72A	19.46B/19.22A 18.97B/18.72A		20.67 + 1.41 20.18 + 1.41				2248 UNCH
4900 4950			18.49B/18.25A 18.00B/17.77A	18.49B/18.25A 18.00B/17.77A		$ \begin{array}{r} 19.70 + 1.41 \\ 19.21 + 1.40 \end{array} $.9705 -			6911 UNCH
5000			17.52B/17.29A	17.52B/17.29A		18.73 + 1.40	.9638 -			20304 UNCH
5050 5100			17.05B/16.81A 16.95B/16.33A	17.05B/16.81A 16.95B/16.33A		18.25 + 1.40 17.77 + 1.39	.9569 -			7232 UNCH
5150 5200	16.76	16.76 	17.11B/15.86A 17.04B/15.40A	17.11B/15.86A 17.04B/15.40A		17.29 + 1.38 16.82 + 1.38	.9486 -		1	6362 UNCH
5250 5300			16.57B/14.93A 16.10B/14.47A	16.57B/14.93A 16.10B/14.47A		16.35 + 1.38 15.88 + 1.37				2005 0.10.1
5350			15.64B/14.02A 15.18B/13.57A	15.64B/14.02A 15.18B/13.57A		15.42 + 1.37 14.96 + 1.36	.9338 -			1766 UNCH
5400 5450			14.72B/13.12A	14.72B/13.12A		14.50 + 1.35	.9213 -			2140 UNCH
5500 5550			14.26B/12.68A 13.81B/12.24A	14.26B/12.68A 13.81B/12.24A		14.05 + 1.35 13.60 + 1.33	.9065 -			3552 UNCH
5600 5650			13.37B/11.81A 12.93B/11.38A	13.37B/11.81A 12.93B/11.38A		13.16 + 1.33 12.72 + 1.31				
5700 5750			12.49B/10.96A 12.05B/10.55A	12.49B/10.96A 12.05B/10.55A		12.29 + 1.30 11.86 + 1.29	.8809 -			3004 UNCH
5800	10.55	10.55	11.64B/10.14A	11.64B/10.14A		11.44 + 1.28	.8608 -		25	4696 UNCH
5850 5900	10.15	10.15	11.21B/9.74A 10.81B/9.35A	11.21B/9.74A 10.81B/9.35A		11.02 + 1.27 10.61 + 1.25	.8394 -			4402 UNCH
5950 6000	9.28	9.28	10.39B/8.96A 9.99B/9.28	10.39B/8.96A 9.99B/9.28		10.20 + 1.23 9.81 + 1.23			9	1947 UNCH 31451 - 3
6050 6100	8.21	8.21	9.61B/ 9.22B/8.06A	9.61B/ 9.22B/8.06A		9.42 + 1.22 9.03 + 1.20	.8023 -		27	2228 UNCH
6150			8.84B/ 8.47B/	8.84B/ 8.47B/		8.65 + 1.18	.7745 -			1766 UNCH
6200 6250	7.08	7.08	8.10B/7.08	8.10B/7.08		7.92 + 1.15	.7452 -		2	1296 - 2
6300 6350			7.74B/ 7.39B/	7.74B/ 7.39B/		7.57 + 1.14 7.22 + 1.12	.7136 -			4006 UNCH
6400 6450	6.02	6.02	7.05B/5.97 6.71B/	7.05B/5.97		6.89 + 1.11 $6.56 + 1.09$			3	0000
6500	5.26 5.16	5.26 5.16	6.38B/5.19A 6.07B/5.10A	6.71B/ 6.38B/5.19A 6.07B/5.10A		6.24 + 1.07 $5.93 + 1.06$.6633 -		57 30	27676 - 25
6550 6600	4.74	4.74	5.76B/4.63A	5./6B/4.63A		5.62 + 1.03	.6279 -		11	4911 UNCH
6650 6700	4.15	4.15	5.46B/ 5.17B/4.15	5.46B/ 5.17B/4.15		5.33 + 1.01 5.04 + 0.99	.5912 -		33	7482 - 23
6750 6800	4.40 3.65	4.40 3.65	4.89B/4.40 4.61B/3.65	4.89B/4.40 4.61B/3.65		4.76 + 0.96 4.49 + 0.93			340 71	±1.51
6850 6900	3.20	3.20	4.36B/ 4.10B/3.16A	4.36B/ 4.10B/3.16A		4.23 + 0.90 3.99 + 0.87	.5345 -		15 236	3053 + 15
6950	3.13	3.13	3.86B/3.09A	3.86B/3.09A		3.75 + 0.84	.4962 -		1	2344 UNCH
7000 7050	2.67	2.67 2.58	3.65/2.67 3.41B/2.58	3.65/2.67 3.41B/2.58 3.20B/2.91A		3.53 + 0.82 $3.32 + 0.80$.4583 -		1050 325 10	684 UNCH
7100 7150	3.19 2.72	3.19 2.72	3.41B/2.58 3.20B/2.91A 3.00B/2.70	3.00B/2.70		$ 3.11 + 0.77 \\ 2.92 + 0.75 $.4208 -		15 7	257 UNCH
7200 7250	2.46	2.46	2.81B/2.46 2.63B/	2.81B/2.46		2.73 + 0.71 2.56 + 0.69	.4023 -		3024 3000	5404 + 2190
7300 7350	2.30 2.10	2.30 2.10	2.46B/2.20A 2.30B/2.07A	2.63B/ 2.46B/2.20A 2.30B/2.07A		2.39 + 0.66 2.23 + 0.64	.3666 -		209	4503 - 128
7400	1.70	1.70	2.14/1.70	2.14/1.70		2.08 + 0.61	.3321 -		414	4187 + 165
7450 7500	1.33	1.33	2.00B/ 1.90/1.29A	2.00B/ 1.90/1.29A		1.94 + 0.58 $1.81 + 0.56$.2998 -		1548	28658 + 135
7550 7600	1.72 1.39	1.72 1.39	1.90/1.29A 1.74B/1.56A 1.62B/1.39	1.74B/1.56A 1.62B/1.39		$ \begin{array}{r} 1.68 + 0.53 \\ 1.56 + 0.50 \end{array} $.2686 -		29 4	943 + 1
7650 7700	1.37	1.37	1.50B/ 1.41/1.25A	1.50B/ 1.41/1.25A		$ \begin{array}{r} 1.46 + 0.49 \\ 1.35 + 0.46 \end{array} $.2548 -		100 792	449 - 99
7750 7800	1.31 1.19	1.31 1.19	1.32/1.16A 1.23/1.08A	1.32/1.16A 1.23/1.08A		1.26 + 0.44 1.17 + 0.42	.2273 -		396 358	970 - 2
7850	0.92	0.92	1.12B/0.91A	1.12B/0.91A		1.08 + 0.39	.2016 -		124	189 + 110
7900 7950	0.92 0.79	0.92 0.79	1.04/0.92 0.97B/0.79	1.04/0.92 0.97B/0.79		$ \begin{array}{r} 1.01 + 0.38 \\ 0.93 + 0.34 \end{array} $.1787 -		5 1	313 UNCH
8000 8050	0.57 0.64	0.57 0.64	0.90/0.56 0.84B/0.64	0.90/0.56 0.84B/0.64		$ \begin{array}{r} 0.87 + 0.32 \\ 0.81 + 0.30 \end{array} $.1591 -		1684 45	190 - 18
8100 8150	0.48	0.48 0.56	0.80/0.48 0.73B/0.56	0.80/0.48 0.73B/0.56		$ \begin{array}{r} 0.75 + 0.28 \\ 0.70 + 0.26 \end{array} $.1494 -		533 103	819 - 8
8200	0.41 0.61	0.41 0.61	0.69/0.41 0.64/0.57	0.69/0.41 0.64/0.57		0.65 + 0.25 0.61 + 0.24	.1323 -		2973 3000 43	5378 + 2475
8250 8300	0.47	0.47	0.59B/0.47	0.59B/0.47		0.57 + 0.22	.1179 -		10	647 + 3
8350 8400	0.46 0.43	0.46 0.43	0.58/0.46 0.54/0.43	0.58/0.46 0.54/0.43		$ \begin{array}{r} 0.53 + 0.21 \\ 0.50 + 0.20 \end{array} $.1050 -		4 543	1767 + 472
8450 8500	0.50 0.38	0.50 0.38	0.50/0.45A 0.46/0.38	0.50/0.45A 0.46/0.38		$ \begin{array}{rrrr} 0.47 + 0.19 \\ 0.44 + 0.18 \end{array} $.0993 -		16 476	73 + 14
8550 8600	0.43	0.43 0.40	0.43/0.40A 0.40/0.37A	0.43/0.40A 0.40/0.37A		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0894 -		2	31 - 1
8650			0.38B/	0.38B/		0.37 + 0.16	.0798 -		1	210 + 1
8700 8750	0.36	0.36	0.38/0.33 0.33B/	0.38/0.33 0.33B/		$ \begin{array}{r} 0.35 + 0.15 \\ 0.33 + 0.14 \end{array} $.0717 -			6 UNCH
8800 8850	0.33 0.28	0.33 0.28	0.33/0.29 0.30B/0.28	0.33/0.29 0.30B/0.28		$ \begin{array}{r} 0.31 + 0.13 \\ 0.29 + 0.12 \end{array} $.0638 -		40 2	2002 + 2
8900 8950	0.27	0.27	0.28/0.27 0.27B/	0.28/0.27 0.27B/		$ \begin{array}{r} 0.28 + 0.12 \\ 0.26 + 0.11 \end{array} $.0614 -		4	446 - 2
9000 9050	0.14 0.21	0.14 0.21	0.26/0.14 0.24B/0.21	0.26/0.14 0.24B/0.21		0.25 + 0.11 0.24 + 0.11	.0552 -		1601 142	17056 + 1000
THE IN	IFORMATIO	ON CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE	USER AND IS FURNISHED W	/ITHOUT RES	PONSIBILITY F	OR ACCURACY OR	
ACCEPT	ED BY TH	IE USER ON THE C	ONDITION THAT ERRO	RS OR OMISSIONS S	HALL NOT BE MADI	E THE BASIS FOR ANY CLAI	M, DEMAND,	OR CAUSE FOR	ACTION.	





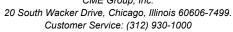
FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S S	SETTLEMENT PRIC	Ε.						
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME VOL	PNT OPE LUME INTERES	
LO CAL DEC18			OIL OPTIONS (PHY)								
9100 9150	0.22	0.22	0.23/0.22 0.22B/	0.23/0.22 0.22B/		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0507			88 U	JNCH
9200 9250	0.20 0.18	0.20 0.18	0.20/0.20 0.19B/ 0.18/0.18	0.20/0.20 0.19B/ 0.18/0.18		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0448 .0426 .0421			460 U	JNCH JNCH JNCH
9300 9350 9400	0.16	0.16	0.18/0.18 0.17B/ 0.17B/	0.17B/ 0.17B/		$ \begin{array}{r} 0.19 + 0.09 \\ 0.18 + 0.08 \\ 0.17 + 0.08 \end{array} $.0400		1 -	48 U	JNCH JNCH
9450 9450 9500	0.15	0.15	0.16B/ 0.15/0.15	0.16B/ 0.15/0.15		0.16 + 0.07 0.15 + 0.06	.0359				JNCH 51
9550 9600	0.15	0.15	0.15/0.15 0.15/0.15 0.13B/	0.15/0.15 0.15/0.15 0.13B/		0.15 + 0.07 0.14 + 0.06	.0335		2 -	46 -	1 UNCH
9650 9700			0.13B/ 0.12B/	0.13B/ 0.12B/		0.14 + 0.07 0.13 + 0.06	.0311				UNCH 67
9800 9850	0.12	0.12	0.12/0.12 0.11B/	0.12/0.12 0.11B/		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0269		4 -	166 -	4 JNCH
9900 9950			0.10B/ 0.09B/	0.10B/ 0.09B/		$ \begin{array}{rrrr} 0.11 & + & 0.05 \\ 0.10 & + & 0.05 \end{array} $.0246 .0227			714 U	UNCH UNCH
10000 10050	0.08	0.08	0.10/0.08 0.09B/	0.10/0.08 0.09B/		$ \begin{array}{rrrr} 0.10 & + & 0.05 \\ 0.09 & + & 0.04 \end{array} $.0225 .0205			9 U	999 JNCH
10100 10150			0.09B/ 0.08B/	0.09B/ 0.08B/		$ \begin{array}{r} 0.09 + 0.04 \\ 0.09 + 0.05 \end{array} $.0203 .0202			82 U	JNCH JNCH
10200 10250			0.07B/ 0.07B/	0.07B/ 0.07B/		0.08 + 0.04 0.08 + 0.04	.0182			105 U	JNCH
10350 10400	0.06	0.06	0.06B/ 0.06/0.06	0.06B/ 0.06/0.06		$ \begin{array}{r} 0.07 + 0.03 \\ 0.07 + 0.04 \\ 0.06 + 0.03 \end{array} $.0160 .0159		1 -	11 U	JNCH
10450 10500			0.06B/ 0.06B/ 0.05B/	0.06B/ 0.06B/ 0.05B/		0.06 + 0.03 $0.06 + 0.03$ $0.06 + 0.03$.0139 .0138 .0137		1 -	484 U	JNCH JNCH JNCH
10550 10600 10650	0.04	0.04	#0.05B/ #0.05B/*0.04	#0.05B/ #0.05B/*0.04		0.06 + 0.03 0.05 NEW	.0136				UNCH 75
10700 10750			#0.04B/ 0.04B/	#0.04B/ 0.04B/		0.05 + 0.03 0.05 + 0.03	.0116			1 U	JNCH JNCH
11000 11100	0.05	0.05	0.05/0.04A 0.03B/	0.05/0.04A 0.03B/		$ \begin{array}{r} 0.04 + 0.02 \\ 0.04 + 0.02 \end{array} $.0092			761 +	50 JNCH
11150 11250			0.03B/ 0.02B/	0.03B/ 0.02B/		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0071			2 U	JNCH JNCH
11300 11400			0.02B/ 0.02B/	0.02B/ 0.02B/		$ \begin{array}{r} 0.03 + 0.02 \\ 0.03 + 0.02 \end{array} $.0070 .0069			1 U	JNCH JNCH
11500 11700			0.02B/	0.02B/		0.02 + 0.01 0.02 + 0.01	.0048			1 U	JNCH
11800 11850						0.02 + 0.01 0.02 + 0.01	.0047			4 U	JNCH
12000 12500						0.02 + 0.01 0.01 UNCH	.0046 .0024 .0021			11510 U	JNCH
12600 13000 13500						0.01 UNCH 0.01 UNCH 0.01 UNCH	.0021			255 U	JNCH JNCH JNCH
13750 14000						0.01 UNCH 0.01 UNCH	.0007			1 U	JNCH JNCH
14500 15000						0.01 UNCH 0.01 UNCH	.0002			2 U	UNCH UNCH
15500 17500						0.01 UNCH 0.01 UNCH	.0000			294 U	JNCH JNCH
19500 20000						0.01 UNCH 0.01 UNCH				147 U	JNCH JNCH
TOTAL JAN19									20987 6	5325 455386 + 7	7309
5000 5350			18.54B/16.96A 15.33B/13.82A	18.54B/16.96A 15.33B/13.82A		18.28 + 1.25 15.08 + 1.20	.9469 .9075				JNCH JNCH
5400 5500			14.88B/13.39A 14.01B/12.54A	14.88B/13.39A 14.01B/12.54A		14.64 + 1.20 13.77 + 1.18	.9000 .8840			10 U	UNCH UNCH
5550 5650			13.58B/12.12A 12.74B/11.31A	13.58B/12.12A 12.74B/11.31A		13.34 + 1.17 12.50 + 1.16	.8755 .8576			500 U	UNCH UNCH
5700 5800			12.31B/10.92A 11.51B/10.13A	12.31B/10.92A 11.51B/10.13A		12.09 + 1.15 11.28 + 1.13	.8475 .8270			<u>1</u> U	JNCH JNCH
5850 5950			11.10B/9.75A 10.32B/	11.10B/9.75A 10.32B/		$ \begin{array}{r} 10.89 + 1.12 \\ 10.11 + 1.10 \end{array} $.8160 .7926			15 U	UNCH UNCH
6000 6050			9.94B/8.64A 9.58B/	9.94B/8.64A 9.58B/		9.73 + 1.08 9.36 + 1.07	.7802 .7672			308 U	JNCH JNCH
6100 6200			9.21B/7.93A 8.49B/	9.21B/7.93A 8.49B/		9.00 + 1.06 8.29 + 1.04	.7542 .7268			123 U	JNCH
6250 6300			8.14B/ 7.79B/	8.14B/ 7.79B/ 7.46B/		7.94 + 1.02 7.61 + 1.01	.7126 .6979			240 U	UNCH
6350 6400			7.46B/ 7.13B/ #6.81B/	7.46B/ 7.13B/ #6.81B/		7.28 + 1.00 $6.95 + 0.98$ $6.64 + 0.97$.6828 .6676 .6519				UNCH UNCH
6450 6500 6550	5.68	5.68	6.48B/5.59A 6.18B/	6.48B/5.59A 6.18B/		6.33 + 0.95 6.03 + 0.93	.6360		17 -	1264 -	9 JNCH
6600 6650			5.88B/ #5.60B/	5.88B/ #5.60B/		5.74 + 0.92 5.46 + 0.90	.6033			55 U	UNCH UNCH
6700 6750	5.01	5.01	#5.32B/4.91A #5.05B/	#5.32B/4.91A #5.05B/		5.18 + 0.88 4.92 + 0.86	.5696 .5525			30 U	JNCH JNCH
6800 6850	4.75 4.49	4.75 4.49	4.79B/4.41A 4.53B/4.17A	4.79B/4.41A 4.53B/4.17A		4.66 + 0.84 4.42 + 0.83	.5354 .5181		=	268 -	1 UNCH
6900 6950			#4.29B/ #4.06B/	#4.29B/ #4.06B/		4.18 + 0.80 3.95 + 0.78	.5008			111 U	JNCH JNCH
7000 7050			3.83B/ #3.62B/	3.83B/ #3.62B/		3.74 + 0.77 $3.53 + 0.75$.4665			22 U	200 JNCH
7100 7150 7200	2.97 3.03	2.97 3.03	3.41B/ 3.21B/2.94A 3.03/2.77A	3.41B/ 3.21B/2.94A 3.03/2.77A		$ 3.32 + 0.72 \\ 3.13 + 0.70 \\ 2.95 + 0.68 $.4322 .4155 .3990		2 -		JNCH JNCH 21
7200 7250 7300	3.03	3.03	3.03/2.77A 2.85B/ 2.68B/	2.85B/ 2.68B/		2.95 + 0.68 2.77 + 0.65 2.60 + 0.62	.3824			30 U	JNCH JNCH
7300 7350 7400			#2.51B/ 2.36B/	#2.51B/ 2.36B/		2.44 + 0.59 2.30 + 0.58	.3502			65 U	JNCH JNCH
7450 7450 7500	2.04 1.85	2.04 1.85	#2.21B/2.00 2.08B/1.85	#2.21B/2.00 2.08B/1.85		2.16 + 0.56 2.02 + 0.53	.3203 .3053		18 -	23 - 315 +	11 19
7550 7600			#1.95B/ #1.82B/	#1.95B/ #1.82B/		$ \begin{array}{r} 1.90 + 0.52 \\ 1.78 + 0.49 \end{array} $.2915 .2776		3 -	68 U 75 +	JNCH 3
7700 7750			#1.60B/ #1.49B/	#1.60B/ #1.49B/		1.56 + 0.45 $1.46 + 0.43$.2512 .2387			58 U	JNCH JNCH
7800 7850			1.40B/ #1.31B/	1.40B/ #1.31B/		1.37 + 0.41 1.28 + 0.39	.2270			2 U	UNCH
7900 7950	1.17	1.17	1.22B/ 1.17/1.05A	1.22B/ 1.17/1.05A 1.07B/0.98A		$ \begin{array}{r} 1.20 + 0.37 \\ 1.12 + 0.35 \\ 1.05 + 0.33 \end{array} $.2044 .1936		1 -		JNCH JNCH 18
8000 8050 8100	1.00 0.70	1.00 0.70	1.07B/0.98A 1.01B/ 0.95/0.70	1.07B/0.98A 1.01B/ 0.95/0.70		$ \begin{array}{r} 1.05 + 0.33 \\ 0.98 + 0.31 \\ 0.92 + 0.29 \end{array} $.1836 .1737 .1648				18 JNCH 2
8150 8150 8200	0.70	0.70	0.89B/ 0.84/0.62	0.89B/ 0.84/0.62		0.92 + 0.29 0.87 + 0.28 0.81 + 0.26	.1570				JNCH 5
8300 8350	0.56	0.56 0.50	0.75/0.56 #0.69B/*0.50	0.75/0.56 #0.69B/*0.50		0.72 + 0.24 0.68 NEW	.1337		17 -		JNCH 30
8400 8500	0.55	0.55	0.65B/ 0.58B/0.53A	0.65B/ 0.58B/0.53A		$ \begin{array}{rrrr} 0.64 & + & 0.22 \\ 0.56 & + & 0.19 \end{array} $.1207 .1077			17 U 2184 -	JNCH 1
8550 8600	0.52	0.52	#0.55B/ 0.52/0.48A	#0.55B/ 0.52/0.48A		$ \begin{array}{r} 0.53 + 0.18 \\ 0.50 + 0.17 \end{array} $.1025 .0973		5 -	107 U 137 -	JNCH 2
8650 8700			#0.49B/ 0.46B/	#0.49B/ 0.46B/		$ \begin{array}{r} 0.47 + 0.16 \\ 0.45 + 0.16 \end{array} $.0922			35 U	JNCH
8750 8800	0.40	0.40	0.43B/ 0.41B/0.38A	0.43B/ 0.41B/0.38A		0.42 + 0.15 $0.40 + 0.14$.0833		2 -	106 +	JNCH 2
8900 8950	0.37 0.33	0.37 0.33	0.37/0.35A 0.35B/ 0.33/0.32	0.37/0.35A 0.35B/ 0.33/0.32		0.36 + 0.13 $0.34 + 0.12$ $0.32 + 0.11$.0722				16 JNCH 7
9000 9050 9100	0.33 	0.33	#0.31B/ 0.30B/	#0.31B/ 0.30B/		$\begin{array}{ccccc} 0.32 & + & 0.11 \\ 0.31 & + & 0.11 \\ 0.29 & + & 0.10 \end{array}$.0649 .0628 .0592			4 U	JNCH JNCH
9150			#0.28B/	#0.28B/		0.28 + 0.10	.0571			2 Ú	JNCH
THE IN	irukMA (IO	IN CONTAINED IN	THIS REPORT IS COM	TED FOR THE CON	VENTENCE OF THE	USER AND IS FURNISHED W	vinoui KESPON:	PIDILLIA E	UK ALLUKACY	OR CONTENT. IT IS	•

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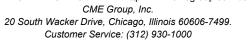
PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
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INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	Ε.								•
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA C	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		OPEN INTEREST	
LO CAL JAN19	L	NYMEX CRUDE C	OIL OPTIONS (PHY)										
9200 9300	0.26	0.26	0.27B/ 0.26/0.24A	0.27B/ 0.26/0.24A		$ \begin{array}{rrrr} 0.26 & + & 0.09 \\ 0.24 & + & 0.08 \end{array} $				20		46 UNC 23 + 1	СН 19
9350	0.24	0.24 0.20	#0.24/*0.23A #0.22B/0.20	#0.24/*0.23A #0.22B/0.20		0.23 NEW 0.22 + 0.08	.0474			20 1		20 + 2	20
9400 9500			0.19B/	0.19B/		0.20 + 0.07	.0415					39 UNC	CĤ
9650 10200		====	0.17B/ #0.11B/	0.17B/ #0.11B/		$ \begin{array}{rrrr} 0.17 + 0.05 \\ 0.11 + 0.04 \end{array} $.0232					10 UNC 2 UNC	CH
10250 10300	0.10	0.10	#0.10/*0.10 0.10B/	#0.10/*0.10 0.10B/		0.11 NEW 0.10 + 0.03	.0250			40 		40 + 4 6 UNC	40 CH
10400 10500	0.10	0.10	0.10/0.10 0.08B/	0.10/0.10 0.08B/		0.09 + 0.03 $0.09 + 0.03$.0192			3			3
10600 10900			0.08B/ 0.05B/	0.08B/ 0.05B/		0.08 + 0.03 0.07 + 0.03	.0170					2 UNC 8 UNC	CH
11000			0.05B/ 0.05B/	0.05B/ 0.05B/		0.06 + 0.02	.0128					22 UNC	CH
11100 TOTAL			0.036/	0.036/		0.06 + 0.03	.0126			351	200	3 UNC 14872 + 37	
FEB19 5700			12.16B/10.87A	12.16B/10.87A		11.92 + 1.02	.8190					100 UNC	СП
5950			#10.24B/9.03A 9.88B/8.68A	#10.24B/9.03A 9.88B/8.68A		10.02 + 0.97 9.66 + 0.97	.7634					22 UNC 42 UNC	CH
6000 6100			9.17B/7.99A	9.17B/7.99A		8.95 + 0.95	.7265					305 UNC	CH
6200 6250			#8.46B/ #8.14B/7.01A	#8.46B/ #8.14B/7.01A		8.26 + 0.92 7.93 + 0.91	.6873					5 UNC	CH
6300 6350			#7.79B/ 7.47B/	#7.79B/ 7.47B/		7.60 + 0.90 7.28 + 0.88	.6582					50 UNC 247 UNC	CH
6400 6450			7.15B/ #6.85B/	7.15B/ #6.85B/		6.97 + 0.87 6.66 + 0.86						124 UNC 85 UNC	
6500 6600			6.54B/ #5.97B/	6.54B/ #5.97B/		6.36 + 0.84 5.79 + 0.81	.6139					69 UNC 33 UNC	
6650 6700			#5.68B/ #5.41B/	#5.68B/ #5.41B/		5.51 + 0.79 5.25 + 0.78	.5675					84 UNC 60 UNC	CH
6750			5.15B/ 4.89B/	5.15B/ 4.89B/		4.99 + 0.77	.5357					238 UNC 385 UNC	CH
6800 6850			4.65B/	4.65B/		4.51 + 0.74	.5037					126 UNC	CH
6900 7000			4.41B/ 3.97B/	4.41B/ 3.97B/		4.28 + 0.73 $3.85 + 0.70$.4559			2		170 UNC 259 UNC	CH
7050 7100			3.75B/ 3.55B/	3.75B/ 3.55B/		3.64 + 0.67 3.45 + 0.66	. 1333					59 UNC 135 UNC	
7150 7200			3.36B/ 3.17B/	3.36B/ 3.17B/		3.26 + 0.64 3.08 + 0.62	.3934					30 UNC 116 UNC	
7250 7350			2.99B/ 2.67B/	2.99B/ 2.67B/		2.90 + 0.59 2.59 + 0.56	.3779					53 UNC 25 UNC	
7400	2.21	2.21	2.51B/ 2.23B/2.06A	2.51B/ 2.23B/2.06A		2.44 + 0.53 2.17 + 0.50	.3344			1 2		200 UNC	
7500 7600			1.98B/ #1.76B/	1.98B/ #1.76B/		1.93 + 0.47	.2812			1		5 -	1
7700 7750			#1.65B/	#1.65B/		1.71 + 0.43 $1.61 + 0.41$.2449					5 UNC	CH
7800 7850			1.55B/ #1.46B/	1.55B/ #1.46B/		$ \begin{array}{r} 1.51 + 0.39 \\ 1.42 + 0.37 \end{array} $.2224					206 UNC 5 UNC	CH
7900 7950			#1.38B/ #1.29B/	#1.38B/ #1.29B/		$ \begin{array}{r} 1.34 + 0.36 \\ 1.26 + 0.34 \end{array} $.2021					15 UNC 1 UNC	
8000 8100			1.22B/ 1.08B/	1.22B/ 1.08B/		$ \begin{array}{rrrr} 1.19 & + & 0.33 \\ 1.05 & + & 0.29 \end{array} $						482 UNC 3 UNC	
8200 8300	0.98 0.82	0.98 0.82	#0.98/0.88A 0.85B/0.79A	#0.98/0.88A 0.85B/0.79A		$ \begin{array}{r} 0.94 + 0.27 \\ 0.83 + 0.24 \end{array} $				4 6		4 UNC 8 +	CH 5
8350 8400	0.59	0.59	0.81B/0.59 0.76B/	0.81B/0.59 0.76B/		0.79 + 0.23 0.74 + 0.22	.1371			ž			1
8450			0.72B/	0.72B/		0.70 + 0.21	.1238					7 UNC	CH
8500 8550	0.52	0.52	0.70/0.51A #0.64B/	0.70/0.51A #0.64B/		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.1128			-		38 UNC 1 UNC	CH
8600 8650	0.58	0.58	0.61B/0.57A 0.58B/	0.61B/0.57A 0.58B/		$ \begin{array}{rrrr} 0.60 + 0.19 \\ 0.56 + 0.17 \end{array} $.1019			1 		5 UNC	
8700 8750	0.52	0.52	0.55B/0.52 0.52B/	0.55B/0.52 0.52B/		$ \begin{array}{rcl} 0.54 & + & 0.17 \\ 0.51 & + & 0.16 \end{array} $.0935			1 		8 UNC 1 UNC	
8800 8900	0.43 0.41	0.43 0.41	0.50/0.43 0.45B/0.41	0.50/0.43 0.45B/0.41		$ \begin{array}{r} 0.49 + 0.16 \\ 0.44 + 0.14 \end{array} $.0900			127 100		144 + 11 102 + 10	
9000 9050	0.35	0.35 0.34	0.41/0.35 0.38B/0.34	0.41/0.35 0.38B/0.34		$ \begin{array}{r} 0.40 + 0.13 \\ 0.38 + 0.12 \end{array} $.0749			6		1171 UNC 5 UNC	CH
9100 9150	0.36	0.36	0.36/0.36 0.35B/	0.36/0.36 0.35B/		0.36 + 0.11 0.35 + 0.12	.0681			105		110 + 10 3 UNC	05
9200			0.33B/ 0.32B/	0.33B/ 0.32B/		0.33 + 0.11	.0627					8 UNC	CH
9250 9300			0.30B/	0.30B/		$\begin{array}{ccccc} 0.32 & + & 0.11 \\ 0.31 & + & 0.11 \\ 0.32 & + & 0.11 \end{array}$.0588					4 UNC 45 UNC	CH
9350 9400	0.29	0.29	#0.29/*0.29 0.28B/	#0.29/*0.29 0.28B/		0.29 NEW 0.28 + 0.09	.0536			1 18		43 + 1	1 18
9500 9550	0.24	0.24	0.25/0.24 0.24B/	0.25/0.24 0.24B/		$ \begin{array}{r} 0.26 + 0.09 \\ 0.25 + 0.09 \end{array} $.0479					69 UNC 1 UNC	CH
9600 9650			0.23B/ 0.22B/	0.23B/ 0.22B/		$ \begin{array}{r} 0.24 + 0.08 \\ 0.23 + 0.08 \end{array} $.0443					14 UNC 1 UNC	
9700 9800	0.20 0.18	0.20 0.18	0.21B/0.20 0.18/0.18	0.21B/0.20 0.18/0.18		$ \begin{array}{r} 0.22 + 0.07 \\ 0.20 + 0.06 \end{array} $				20 1			20 1
9900 10000			0.17B/ 0.16B/	0.17B/ 0.16B/		$ \begin{array}{r} 0.18 + 0.05 \\ 0.17 + 0.05 \end{array} $.0555					1 UNC 15 UNC	
10500			0.10B/	0.10B/		0.11 + 0.03				409		23 UNC 6420 + 36	CH
TOTAL MAR19													
5150 5400						$ \begin{array}{r} 16.23 + 0.99 \\ 14.14 + 0.96 \end{array} $						350 UNC 200 UNC	
5450 5500						13.74 + 0.96 13.34 + 0.95	.8437					500 UNC 100 UNC	CH
5600						12.56 + 0.95 12.17 + 0.93	.8161					900 UNC 50 UNC	CH
5650 5700						11.79 + 0.93	.7959					601 UNC	CH
5750 5800						11.42 + 0.93 $11.05 + 0.92$.7750					750 UNC 650 UNC	CH
5850 5900						$\begin{array}{cccccccccccccccccccccccccccccccccccc$.7526					331 UNC 700 UNC	CH
5950 6000			#9.73B/	#9.73B/		9.96 + 0.89 9.61 + 0.88	.7294			5			5
6100 6150			#9.04B/ #8.71B/	#9.04B/ #8.71B/		8.92 + 0.86 8.58 + 0.85	.6938					1100 UNC 200 UNC	CH
6200 6250			#8.38B/ #8.05B/	#8.38B/ #8.05B/		8.25 + 0.84 7.93 + 0.83	.6798					410 UNC 250 UNC	CH
6300 6350			#7.73B/ #7.42B/	#7.73B/ #7.42B/		7.61 + 0.81 7.30 + 0.80	.6533					571 UNC 713 UNC	CH
6400			#7.15B/ #6.85B/	#7.15B/ #6.85B/		6.99 + 0.79 6.70 + 0.78	.6258					1953 UNC 84 UNC	CH
6450 6500			#6.56B/	#6.56B/		6.41 + 0.77	.5974					4201 UNC	CH
6550 6600			#6.27B/ 5.99B/	#6.27B/ 5.99B/		6.13 + 0.76 5.85 + 0.74	.5682					31 UNC 323 UNC	CH
6650 6700			#5.75B/ #5.49B/	#5.75B/ #5.49B/		5.59 + 0.73 5.33 + 0.72	.5384					16 UNC 201 UNC	CH
6750 6800			#5.23B/ 4.97B/	#5.23B/ 4.97B/		5.07 + 0.70 4.83 + 0.69	.5232 .5082					200 UNC 1807 UNC	
6850 7000			#4.73B/ 4.05B/	#4.73B/ 4.05B/		4.59 + 0.67 3.92 + 0.60	.4930				100	425 UNC 4181 UNC	CH
7200 7400			3.26B/ #2.59B/	3.26B/ #2.59B/		3.16 + 0.54 2.53 + 0.47	.3881					4 UNC 100 UNC	CH
7500 7800			2.30B/ #1.60B/	2.30B/ #1.60B/		2.26 + 0.44 1.60 + 0.34	.3063					1690 UNC 250 UNC	CH
8000	1.15	1.15	#1.26B/1.15	#1.26B/1.15		1.28 + 0.29	.1975			18		2831 + 1	14
8300 8350			#0.89B/ #0.84B/	#0.89B/ #0.84B/		$ \begin{array}{r} 0.92 + 0.23 \\ 0.87 + 0.22 \\ 0.83 + 0.33 \end{array} $.1434					14 UNC 4 UNC	CH
8400 8500	0.67	0.67	#0.79B/ 0.71B/0.67	#0.79B/ 0.71B/0.67		$ \begin{array}{r} 0.83 + 0.22 \\ 0.75 + 0.21 \end{array} $				219		10 UNC 9979 + 11	
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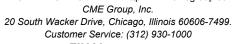
PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	E.									
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTER	OPEN REST
LO CAL MAR19	L	NYMEX CRUDE (OIL OPTIONS (PHY)											
8800 9000	0.40	0.40	#0.51B/ 0.43/0.39	#0.51B/ 0.43/0.39			0.15 0.14	.0961 .0815			209		252 1500 +	UNCH 208
9500 9800			0.24B/ 0.17B/	0.24B/ 0.17B/			0.09 0.07	.0548 .0428					6 36	UNCH UNCH
10000	0.19	0.19	#0.19/0.19	#0.19/0.19			0.06	.0374			1 452	100	303 44387 +	UNCH 335
TOTAL APR19											432	100	44307 +	333
6000							0.90	.7111					20	UNCH
6300 6900						4.45 + (0.83 0.60	.6373 .4701					136 1	UNCH UNCH
7000 7400						2.64 + (0.56 0.44	.4413 .3321					320 1	UNCH UNCH
7500 8800							0.41 0.16	.3073 .1018					40 1	UNCH UNCH
9500							0.10	.0595					10 529	UNCH
TOTAL MAY19													323	
6000							0.80 0.54	.6958 .4377					20 20	UNCH UNCH
7000 7500							0.41	.3099					40	UNCH
TOTAL													80	
JUN19 4000							0.88	.9631					5	UNCH
4500 4800			21.48B/20.19A 18.87B/17.64A	21.48B/20.19A 18.87B/17.64A		18.56 + (0.83 0.80	.9263 .8933					6 950	UNCH UNCH
4850 5000	17.10	 17.10	18.44B/17.22A 17.20B/16.00A	18.44B/17.22A 17.20B/16.00A		18.14 + (0.79 0.79	.8979 .8665			 1		200 2249 -	UNCH 1
5050			16.79B/15.61A 16.39B/15.21A	16.79B/15.61A 16.39B/15.21A		16.51 + (0.78 0.78	.8589 .8518					1550 250	UNCH
5100 5150			15.99B/14.83A	15.99B/14.83A		15.71 + (0.77	.8517					700	UNCH
5200 5300			15.59B/14.45A 14.81B/13.69A	15.59B/14.45A 14.81B/13.69A		14.55 + (0.77 0.77	.8360 .8197					300 1001	UNCH
5350 5400			14.43B/13.31A 14.05B/12.94A	14.43B/13.31A 14.05B/12.94A		13.80 + (0.77 0.77	.8114 .8027					452 400	UNCH UNCH
5450 5500			13.66B/12.58A 13.30B/12.21A	13.66B/12.58A 13.30B/12.21A			0.76 0.76	.7987 .7849					450 3453	UNCH UNCH
5550 5600			12.92B/11.86A 12.57B/11.51A	12.92B/11.86A 12.57B/11.51A		12.69 + (0.75 0.75	.7796 .7664					550 1400	UNCH
5650			12.20B/11.16A	12.20B/11.16A		11.97 + (0.74 0.73	.7568					400 1200	UNCH
5700 5750			11.85B/10.81A 11.49B/10.46A	11.85B/10.81A 11.49B/10.46A		11.28 + (0.73	.7470					4250	UNCH
5800 5850			11.13B/10.13A 10.80B/9.79A	11.13B/10.13A 10.80B/9.79A		10.59 + (0.72 0.71	.7268 .7165					1201 3889	UNCH UNCH
5900 5950			10.45B/9.46A 10.12B/9.14A	10.45B/9.46A 10.12B/9.14A			0.70 0.70	.7060 .6965					901 2400	UNCH UNCH
6000 6050			9.79B/8.83A 9.46B/8.51A	9.79B/8.83A 9.46B/8.51A			0.68 0.68	.6843 .6732					8802 101	UNCH UNCH
6100 6150			9.14B/8.20A 8.82B/7.91A	9.14B/8.20A 8.82B/7.91A		8.96 + 0	0.68	.6619 .6504					101 5000	UNCH
6200			8.54B/7.61A	8.54B/7.61A		8.34 + (0.67	.6388					6306	UNCH
6250 6300			8.24B/7.31A 7.93B/7.03A	8.24B/7.31A 7.93B/7.03A		7.74 + (0.67 0.66	.6269 .6148					5602 3511	UNCH
6350 6400	6.92 6.64	6.92 6.64	#7.64B/6.74A 7.35B/6.47A	#7.64B/6.74A 7.35B/6.47A		7.16 + (0.66 0.64	.6026 .5902			20 21		1800 1180 -	UNCH 21
6450 6500	6.37	6.37	7.06B/6.21A 6.78B/5.95A	7.06B/6.21A 6.78B/5.95A			0.64 0.62	.5776 .5649			21		2750 9819	UNCH UNCH
6550 6600			6.51B/5.70A 6.23B/5.45A	6.51B/5.70A 6.23B/5.45A		6.34 + 0	0.62 0.61	.5521			 25	200 100	400 + 1335 +	200 125
6650	5.40	 5.40	5.97B/5.21A 5.71B/4.97A	5.97B/5.21A 5.71B/4.97A		5.82 + (0.59	.5261			2		1010 354	UNCH
6700 6750			#5.47B/4.75A	#5.47B/4.75A		5.34 + (0.57	.5131					2000	UNCH
6800 6850			5.23B/4.53A 5.00B/4.32A	5.23B/4.53A 5.00B/4.32A		4.88 + 0	0.55 0.55	.4867 .4737					450 2	UNCH UNCH
6900 7000	3.85	3.85	4.78B/4.11A 4.35B/3.72A	4.78B/4.11A 4.35B/3.72A			0.53 0.50	.4605 .4342			3	100	200 8664 -	UNCH 2
7050 7100			4.15B/3.54A 3.95B/	4.15B/3.54A 3.95B/		4.05 + (0.50 0.49	.4214 .4085					10 1	UNCH UNCH
7150 7200			3.76B/ 3.58B/	3.76B/ 3.58B/		3.68 + 0	0.48 0.46	.3958					2 1511	UNCH
7250			3.41B/ #3.24B/	3.41B/ #3.24B/		3.33 + (0.44 0.43	.3704					22 76	UNCH
7300 7350			#3.08B/	#3.08B/		3.01 + (0.41	.3458					213	UNCH
7500 7600			2.64B/ 2.38B/	2.64B/ 2.38B/		2.35 + (0.39 0.38	.3109 .2893				2000	5665 + _4	650 UNCH
7700 7800			2.15B/ 1.93B/	2.15B/ 1.93B/			0.36 0.32	.2688 .2487					50 1451	UNCH UNCH
8000 8100	1.35	1.35	1.60/1.31A 1.42B/	1.60/1.31A 1.42B/			0.28 0.26	.2135 .1972			465 12	150 	10993 + 56 +	495 12
8200 8500			1.28B/ 0.95B/	1.28B/ 0.95B/		1.29 + (0.24 0.21	.1817 .1434			12	800	129 + 20277 -	12 100
8700			0.78B/ #0.75B/	0.78B/ #0.75B/		0.80 + 0	0.18 0.18	.1219					3378 10	UNCH
8750 8900			0.65B/	0.65B/		0.67 + 0	0.16	.1044					75	UNCH
9000 9300	0.60	0.60	0.60/0.60 #0.45B/	0.60/0.60 #0.45B/		0.48 + 0	0.15 0.12	.0973			80 	100	7551 + 2	74 UNCH
9400 9500			0.41B/ 0.38B/	0.41B/ 0.38B/		0.41 + 0	0.11 0.11	.0717				1600	2001 19060 -	UNCH 1000
9800 10000			0.30B/ 0.22B/	0.30B/ 0.22B/			0.10 0.08	.0548 .0472					1152 2517	UNCH UNCH
10500 11000						0.20 + 0	0.06 NEW	.0343				500	3 500 +	UNCH 500
12000			0.12B/	0.12B/			0.03	.0142			662	5550	24 164277 +	UNCH 944
TOTAL JUL19											002	3330	101L11 T	217
5900							0.66 0.64	.6950 .6733					1 20	UNCH
6000 7000						4.29 + (0.48	.4292					170	UNCH
7500 TOTAL						2.67 + 0	0.37	.3109					40 231	UNCH
AUG19														
6000 7000						4.32 + 0	0.61 0.45	.6632 .4248					20 20	UNCH UNCH
7500							0.36	.3110					40 80	UNCH
TOTAL SEP19														
5500 5700							0.66 0.63	.7505 .7138					500 500	UNCH UNCH
5750						11.05 + (0.62	.7059					1000	UNCH
5800 5850						10.39 + (0.60 0.60	.6946 .6858					500 2050	UNCH
5900 6000						9.44 + (0.58 0.57	.6755 .6539					550 1970	UNCH UNCH
6050 6100						9.14 + (8.84 + (0.57 0.57	.6436 .6327					475 100	UNCH UNCH
6200 6250						8.26 + 0	0.56 0.56	.6105 .5992					1250 200	UNCH
6300						7.71 + (0.57	.5879					1501 400	UNCH
6350 6400						7.17 + (0.57 0.56	.5649					550	UNCH
6450 6500						6.65 + 0	0.56 0.55	.5533				850 	1550 + 3500	850 UNCH
6700 THE IN	FORMATIO	ON CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE	5.63 + 0	0.48 SHED WI	.4933 ITHOUT RI	 ESPONSI	BILITY FO	OR ACCURA	CY OR CO	300 NTENT. IT	UNCH IS
ACCEPT	ED BY TH	IE USER ON THE C	ONDITION THAT ERRO	RS OR OMISSIONS S	HALL NOT BE MADE	THE BASIS FOR AN	Y CLAIN	M, DEMANI	D, OR C	AUSE FOR	ACTION.			-

ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.
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FINAL

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		PRICE IS THE	PREVIOUS DAY'S												
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT. & PT.			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTER	OPEN REST
LO CALI SEP19	L	NYMEX CRUDE 0	OIL OPTIONS (PHY)												
6750 7000						5.39 4.36	+	NEW 0.43	.4810 .4213				200 450	200 + 4050 +	200 450
7400 7500						3.06 2.79	+	NEW 0.33	.3315 .3105				350 200	350 + 740 +	350 100
7700						2.32 1.26		NEW NEW	.2714				50 700	50 + 700 +	50 700
8400 8500						1.15		NEW	.1553				450	450 +	450
9400 TOTAL						0.55		NEW	.0823				350 3600	350 + 23786 +	350 3500
OCT19						2 44		0 53	6460					20	
6000 7000						9.44 4.44	+	0.53 0.41	.6468 .4197					20 20	UNCH UNCH
7500 TOTAL						2.89	+	0.32	.3127					40 80	UNCH
NOV19															
6000 7000						9.41 4.51	+	0.48 0.41	.6399 .4181					20 20	UNCH UNCH
7500 TOTAL						2.96	+	0.30	.3136					40 80	UNCH
DEC19															
3900 4000			25.26B/24.18A 24.37B/23.30A	25.26B/24.18A 24.37B/23.30A		24.96 24.07	++	0.62 0.62	.9367 .9285					2 1	UNCH UNCH
4700 4750			18.54B/17.64A 18.15B/17.26A	18.54B/17.64A 18.15B/17.26A		18.29 17.91	+	0.57	.8508					100 350	UNCH
4800			17.77B/16.87A 17.39B/16.50A	17.77B/16.87A 17.39B/16.50A		17.53 17.16	++	0.57	.8373					101 750	UNCH
4850 4900			17.01B/16.13A	17.01B/16.13A		16.79	++	0.57	.8231					1312	UNCH
4950 5000			16.64B/15.78A 16.27B/15.42A	16.64B/15.78A 16.27B/15.42A		16.42 16.06	+	0.57	.8157 .8085					550 2207	UNCH
5050 5100			15.90B/15.07A 15.53B/14.70A	15.90B/15.07A 15.53B/14.70A		15.70 15.34	+	0.57 0.56	.8008 .7932					2450 4800	UNCH UNCH
5150 5200			15.17B/14.36A 14.82B/14.01A	15.17B/14.36A 14.82B/14.01A		14.98 14.63	+	0.55 0.55	.7911 .7777					200 2150	UNCH UNCH
5250 5300			14.46B/13.66A 14.11B/13.32A	14.46B/13.66A 14.11B/13.32A		14.28 13.93	+	0.54 0.54	.7743 .7617					700 2282	UNCH UNCH
5350 5400			13.76B/12.97A 13.41B/12.66A	13.76B/12.97A 13.41B/12.66A		13.58 13.23	+	0.52 0.51	.7536 .7452					1565 2055	UNCH UNCH
5450 5500			13.07B/12.32A 12.73B/11.99A	13.07B/12.32A 12.73B/11.99A		12.89 12.56	+	0.51 0.51	.7367 .7281					1105 4319	UNCH UNCH
5550 5600			12.40B/11.67A 12.07B/11.35A	12.40B/11.67A 12.07B/11.35A		12.23 11.90	+	0.51	.7193 .7104					1910 853	UNCH
5650			11.74B/11.03A 11.42B/10.73A	11.74B/11.03A 11.42B/10.73A		11.57 11.25	++	0.49	.7013					2939 1705	UNCH
5700 5750			11.10B/10.41A	11.10B/10.41A		10.93	+	0.48	.6829					1277	UNCH
5800 5850	9.97	9.97	10.78B/10.10A 10.47B/9.81A	10.78B/10.10A 10.47B/9.81A		10.62 10.31	+	0.48	.6638			10		1210 2267	UNCH
5900 5950			10.16B/9.50A 9.86B/9.21A	10.16B/9.50A 9.86B/9.21A		10.00 9.70	+	0.46 0.46	.6540 .6441					4106 1180	UNCH
6000 6050	9.75	9.75	9.75/8.92A #9.26B/8.64A	9.75/8.92A #9.26B/8.64A		9.41 9.12	+	0.46 0.45	.6340 .6239			31		11114 - 2650	30 UNCH
6100 6150			8.97B/8.35A 8.69B/8.09A	8.97B/8.35A 8.69B/8.09A		8.83 8.55	+	0.45 0.44	.6136 .6031					4650 1610	UNCH UNCH
6200 6250			8.41B/7.81A 8.13B/7.55A	8.41B/7.81A 8.13B/7.55A		8.27 8.00	++	0.44 0.44	.5926 .5819					1917 1508	UNCH UNCH
6300 6350			7.86B/7.29A 7.59B/	7.86B/7.29A 7.59B/		7.73 7.47	+	0.43	.5712 .5603			25		631 + 1500	25 UNCH
6400			7.33B/ #7.08B/	7.33B/ #7.08B/		7.22 6.97	++	0.44	.5494					400 600	UNCH
6450 6500			6.83B/ 6.34B/	6.83B/ 6.34B/		6.72 6.25	+	0.44	.5274				400	7018 620	UNCH
6600 6700			5.88B/	5.88B/		5.80	+	0.45	.4833					591	UNCH
6750 6800			5.66B/ 5.44B/	5.66B/ 5.44B/		5.58 5.37	+	0.44	.4721					1 511	UNCH
6900 7000			5.03B/ 4.64B/	5.03B/ 4.64B/		4.96 4.58	+	0.42 0.41	.4389 .4171				200	514 12543 -	UNCH 200
7050 7100			4.45B/ 4.27B/	4.45B/ 4.27B/		4.40 4.22	+	0.41 0.40	.4063 .3955					50 125	UNCH UNCH
7150 7200			4.10B/ 3.93B/	4.10B/ 3.93B/		4.05 3.89	+	0.39 0.38	.3849 .3745					1 77	UNCH UNCH
7250 7300			3.77B/ 3.61B/	3.77B/ 3.61B/		3.73 3.57	+	0.36 0.34	.3641 .3535					20 6	UNCH UNCH
7400 7500			3.31B/ 3.04B/	3.31B/ 3.04B/		3.29 3.03	+	0.31	.3338				550	22 4554 +	UNCH 550
7700 7800			2.56B/ 2.35B/	2.56B/ 2.35B/		2.57 2.36	+	0.26	.2790					51 83	UNCH
7900			#2.16B/ 1.99B/	#2.16B/ 1.99B/		2.18 2.02	++	0.21	.2463			 50		2 7783 +	UNCH 50
8000 8200			1.68B/ 1.61B/	1.68B/ 1.61B/		1.73	++	0.18	.2050					216	UNCH UNCH
8250 8300			1.54B/	1.54B/		1.66 1.60	+	0.17 0.17	.1984					21 213	UNCH
8500 8700			1.31B/ #1.12B/	1.31B/ #1.12B/		1.37 1.17	+	0.16 0.14	.1695 .1489					4846 509	UNCH
8800 8900			#1.03B/ #0.95B/	#1.03B/ #0.95B/		1.09 1.01	+	0.14 0.13	.1401 .1314					2 46	UNCH UNCH
9000 9100			0.88B/ #0.82B/	0.88B/ #0.82B/		0.94 0.87	+	0.13 0.12	.1235 .1157					13277 5	UNCH
9250 9500			0.73B/ 0.61B/	#0.73B/ 0.61B/		0.78 0.65	+	$0.11 \\ 0.09$.1053 .0898					20 1290	UNCH UNCH
10000 10500	0.44	0.44	0.50/0.44	0.50/0.44		0.47 0.35	++	0.08 0.07	.0671 .0511			35	100	19688 + 825 +	35 100
10950 11000						0.26 0.25	+	0.05	.0390 .0377					400	UNCH
11500 12000						0.19 0.14	+	0.04	.0291					100 700	UNCH
12500 12500 13000						0.11 0.08	++	0.03	.0174					2810 205	UNCH
13500						0.07 0.05	++++	0.02 0.01	.0113					11 3	UNCH
14000 15000	0.03	0.03	0.03/0.03	0.03/0.03		0.03	+	0.01	.0051			1		408 +	1
20000 TOTAL						0.01		UNCH	.0016			152	1250	293 151488 +	UNCH 531
JAN20						F 30		0.40	4554					160	
6800 8300						5.30 1.61	+	0.40 0.16	.4554 .1920					160 160	UNCH UNCH
TOTAL														320	
JUN20 4850						16.03		0.33	.8083					350	UNCH
4900 5300						15.68 12.96	+	0.33 0.29	.8002 .7297					100 72	UNCH UNCH
5600 5700						11.06 10.45	+	0.27	.6773 .6593					389 1000	UNCH
5800 6000						9.87 8.75	++	0.26	.6400					200 600	UNCH
6100 7000						8.21 4.34	++	0.24	.5798					300 850	UNCH
10000						0.61	+	0.06	.0794					2 3863	UNCH
TOTAL DEC20														2002	
4000						21.50 17.69	++	0.24 0.24	.8865 .8259					10 1	UNCH UNCH
4500 4750						15.91	+	0.23	.8001					10	UNCH
	FORMATIO	N CONTAINED IN T	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE					RESPONSI	BILITY FO	OR ACCURA		350 NTENT. IT	IS
ACCEPTI	ED BY THI	E USER ON THE CO	ONDITION THAT ERRO		HALL NOT BE MADE tht CME Group In				M, DEMAN	ND, OR C	AUSE FOR	ACTION.			



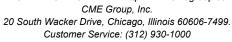


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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXI DELTA CIS	ES OUTCRY	GLOBEX® VOLUME		(INTE	OPEN REST
LO CAL	.L	NYMEX CRUDE O	OIL OPTIONS (PHY))				VOLUME				
DEC20 4900						14.89 + 0.23	.7758				_ 1	UNCH
4950 5000						14.56 + 0.23 14.23 + 0.23	.7674 .7538				700 1245	UNCH
5100 5150						13.58 + 0.23 13.25 + 0.23	.7422 .7337 .7162				1250 2300	UNCH
5250 5300						12.62 + 0.23 12.31 + 0.23 12.00 + 0.22	.7162 .7052 .6985				300 500 100	UNCH UNCH UNCH
5350 5400						12.00 + 0.22 11.70 + 0.23 11.40 + 0.22	.6881 .6804				200 1150	UNCH
5450 5500 5600						11.10 + 0.22 10.52 + 0.22	.6705				1460 100	UNCH
5700 5750						9.96 + 0.22 9.68 + 0.22	.6340 .6244				202 200	UNCH
5800 5900						9.41 + 0.22 8.87 + 0.21	.6151 .5958				600 250	UNCH
5950 6000						8.61 + 0.20 8.36 + 0.20	.5857 .5759				260 6447	UNCH
6200 6500						7.39 + 0.19 6.08 + 0.17	.5364 .4767				34 5309	UNCH
6650 6800						5.50 + 0.17 4.95 + 0.16	.4473 .4180				1 1	UNCH
7000 7500						4.29 + 0.14 $3.03 + 0.14$.3801 .2962				5483 1331	UNCH UNCH
8000 8500						2.17 + 0.12 $1.68 + 0.13$.2287 .1830				6751 6554	UNCH UNCH
9000 9100						1.35 + 0.14 $1.29 + 0.14$.1496 .1436		3		80 + 202	3 UNCH
9500 10000						$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.1199 .0955		3	150	33 13403 +	UNCH 150
10500 12000						0.63 + 0.09 0.30 + 0.05	.0764 .0392				70 1	UNCH
12500 13000						0.24 + 0.04 $0.19 + 0.03$.0319				251 2	UNCH
14000 15000	0.06	0.06	0.07/0.06	0.07/0.06		0.13 + 0.02 0.09 + 0.01	.0180 .0127		4		25 1865 +	UNCH 1
17500 TOTAL						0.04 UNCH	.0058		10	150	35 59067 +	UNCH 154
DEC21 5000						13.10 + 0.11	.7166				1	UNCH
5200 5250						11.90 + 0.11 11.61 + 0.11	.6852 .6765				600 900	UNCH
5500 5600						10.22 + 0.11 9.68 + 0.10	.6323 .6137				700 100	UNCH
6000 6500						7.77 + 0.10 5.83 + 0.09	.5399 .4496				500 507	UNCH
7000 7500						4.33 + 0.09 3.16 + 0.08	.3663 .2918				1202 378	UNCH
8100 9900						2.21 + 0.05 0.96 + 0.03	.2210 .1068				100	UNCH UNCH
10000 13000						$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.1028 .0412				2011 100	UNCH UNCH
TOTAL											7100	
DEC22 6000						7.53 + 0.09	.5198				16	UNCH
6050 7000						7.31 + 0.08 4.13 + 0.07	.5108 .3510				408 408	UNCH
7500 10000						3.04 + 0.06 0.93 + 0.03	.2807 .1029				1000	UNCH
10500 TOTAL						0.78 + 0.02	.0874				465 1891	UNCH
DEC23 10000						1.06 + 0.03	.1120				1001	UNCH
TOTAL						2100 1 0103	.1120				1001	o.i.c.i
LO PUT AUG18	-	NYMEX CRUDE C	OIL OPTIONS (PHY))								
3000 3150						0.01 UNCH 0.01 UNCH					9 1	UNCH UNCH
3250 3300						0.01 UNCH 0.01 UNCH					7 1	UNCH
3350 3400						0.01 UNCH 0.01 UNCH					10 13	UNCH
3450 3500						0.01 UNCH 0.01 UNCH					10 609	UNCH
3550 3600						0.01 UNCH 0.01 UNCH					17 34	UNCH
3650 3700						0.01 UNCH 0.01 UNCH 0.01 UNCH					3 5 310	UNCH
3750 3800 3850						0.01 UNCH 0.01 UNCH 0.01 UNCH					227 106	UNCH UNCH UNCH
3900 3950						0.01 UNCH 0.01 UNCH					482 466	UNCH
4000 4050						0.01 UNCH 0.01 UNCH					1203 337	UNCH
4100 4150						0.01 UNCH 0.01 UNCH					826 49	UNCH
4200 4250						0.01 UNCH 0.01 UNCH					1186 652	UNCH
4300 4350						0.01 UNCH 0.01 UNCH					104 58	UNCH
4400 4450						0.01 UNCH 0.01 UNCH					522 547	UNCH
4500 4550						0.01 UNCH 0.01 UNCH					2353 537	UNCH UNCH
4600 4650						0.01 UNCH 0.01 UNCH					431 389	UNCH
4700 4750						0.01 UNCH 0.01 UNCH					1698 1440	UNCH
4800 4850						0.01 UNCH 0.01 UNCH			1		3038 - 921	1 UNCH
4900 4950	0.01	0.01	0.01/0.01	0.01/0.01		0.01 UNCH 0.01 UNCH			1 		1172 + 3632	1 UNCH
5000 5050						0.01 UNCH 0.01 UNCH					5458 1683	UNCH
5100 5150						0.01 UNCH 0.01 UNCH					2030 1034	UNCH
5200 5250	0.01	0.01	0.01/0.01	0.01/0.01		0.01 UNCH 0.01 UNCH			 16		2309 854	UNCH
5300 5350	0.01	0.01	0.01/0.01	0.01/0.01		0.01 UNCH 0.01 UNCH			16 3		3342 1427	UNCH
5400 5450	0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH	.0000		22 3		2716 - 1161	UNCH
5500 5550	0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH	.0000		128 184		10567 - 2088 -	80 20
5600 5650	0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH	.0000		20 29		2803 - 3275	UNCH
5700 5750	0.01	0.01 0.01	0.01/0.01 0.01/0.01	0.01/0.01 0.01/0.01		0.01 UNCH 0.01 UNCH	.0001		91 371		4597 - 3512 -	21 18
5800 5850	0.01	0.01 0.02 0.03	0.01/0.01 0.02/0.01 0.02/*0.01	0.01/0.01 0.02/0.01 0.02/*0.01		0.01 UNCH 0.01 - 0.01	.0004 .0007		259 336		8026 - 1893 -	58 100 100
5900 5950	0.02 0.02	0.02 0.02	0.02/*0.01 0.03/*0.01	0.02/*0.01 0.03/*0.01		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0011 .0016		337 1039		5358 - 1935 -	190 87
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2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin





Side 59

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

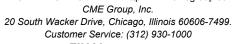
PRICE INDICATOR KEY

R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID
NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES,
THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

		TREVIOUS DATES :	SETTLEMENT PRIC					
GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXE DELTA CIS	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST
LO PUT AUG18 6000 0.03 6050 0.03 6100 0.04 6150 0.04 6250 0.05 6300 0.09 6400 0.10 6450 0.15 6500 0.21 6600 0.28 6650 0.29 66700 0.42 6750 0.55 6800 0.67 6850 0.82 66900 0.67 6850 0.82 6900 0.67 6850 0.82 6900 0.93 6450 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6800 0.57 6	NYMEX CRUDE 0.03 0.03 0.04 0.04 0.06 0.05 0.08 0.09 0.10 0.15 0.19 0.21 0.28 0.36 0.42 0.55 1.35 1.35 1.35 1.35 1.41 1.74 2.18 2.40 2.14 2.14 2.14 2.15 3.40 2.14 2.15 3.40 3.51 7.23 7.23 13.34 13.72 14.21	OIL OPTIONS (PHY) 0.03/*0.01 0.03/*0.01 0.04/*0.02 0.04/*0.02 0.06/*0.03 0.06/*0.03 0.06/*0.03 0.09/*0.04 0.12/*0.04 0.12/*0.04 0.12/*0.06 0.29/*0.10 0.36/*0.12 0.45/*0.16 0.55/*0.20 0.45/*0.16 0.55/*0.20 0.45/*0.16 0.55/*0.21 0.45/*0.16 0.55/*0.20 0.57/*0.24 0.82/*0.31 0.948/*0.33 1.15/*0.48 1.35/*0.59 1.61/*0.72 1.848/*0.87 2.168/*1.72 3.498/*2.02 2.168/*1.72 3.498/*2.02 2.168/*1.73 3.76A 4.748/*1.75A/*3.76A 4.748/*6.78A/*3.76A 4.748/*6.78A/*5.43A/*5.43A/*5.43A/*5.87A/*6.32A 7.488/*6.78A/*5.87A/*8.19A/*8.19A/*8.19A/*8.19A/*8.19A/*9.14A/*9.14A/*9.14A/*9.14A/*9.14A/*9.14A/*9.14A/*9.14A/*9.14A/*10.66A #13.34/*11.54, #13.34/*11.54, #13.34/*11.54, #13.38/*12.55/*13.11A	0.03/*0.01 0.03/*0.01 0.03/*0.01 0.04/*0.02 0.04/*0.02 0.06/*0.03 0.06/*0.03 0.09/*0.04 0.12/*0.04 0.12/*0.04 0.15/*0.05 0.19/*0.06 0.29/*0.10 0.36/*0.12 0.45/*0.16 0.55/*0.20 0.45/*0.16 0.55/*0.20 0.45/*0.16 0.55/*0.21 0.45/*0.16 0.55/*0.21 0.45/*0.16 0.55/*0.22 0.67/*0.24 0.82/*0.38 1.15/*0.48 1.35/*0.59 1.61/*0.72 1.848/*0.87A 2.18/*1.05 2.51/*1.25A 2.168/*1.48A 2.47B/*1.72 3.49B/*2.02A 2.93/*2.34A/*2.66A 3.90/*3.01A 3.918/*3.37A/*4.57A/*4.57A/*5.47A/*5.47A/*5.47A/*6.32A 7.48B/*6.78A/*7.71A/*8.66A/*7.71A/*8.19A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.62A/*9.710.16A/*9.7210.06A #13.334/*11.54, #13.334/*11.54, #13.338/*12.55		0.01 - 0.02 0.01 - 0.03 0.02 - 0.03 0.02 - 0.04 0.03 - 0.05 0.04 - 0.06 0.04 - 0.08 0.05 - 0.10 0.07 - 0.12 0.08 - 0.15 0.10 - 0.28 0.20 - 0.34 0.25 - 0.42 0.32 - 0.49 0.40 - 0.66 0.64 - 0.66 0.66 - 0.76 0.76 - 0.86 0.93 - 0.96 1.11 - 1.07 1.33 - 1.17 1.57 - 1.27 1.83 - 1.37 2.13 - 1.45 2.44 - 1.54 2.78 - 1.61 3.13 - 1.91 5.61 - 1.98 6.06 - 1.95 5.61 - 1.98 6.06 - 2.01 6.52 - 2.04 6.98 - 2.06 7.92 - 2.10 8.88 - 2.11 8.88 - 2.13 9.36 - 2.14 1.80 NEW 12.29 NEW 12.78 NEW 13.28 - 2.19	.0024003500490091009500990149018901470334024703340745011807450118074501180745011807450511074507450745074507450745074507450745074507450745074507450745074507450745074507450745074607470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074707470747074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748074807480748	466 368 3694 9921 724 340 8222 940 1979 628 2649 300 1308 1875 950 2577 1875 950 2577 1875 950 333 100 76 29 4 29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14005 - 88 3445 + 84 8998 - 91 4428 - 301 6836 - 449 4295 - 298 8741 - 316 3115 + 243 7218 + 693 3764 + 3 17184 + 1244 3502 + 67 9193 + 226 3258 + 212 7422 + 255 2426 + 277 8234 + 1134 2778 - 179 3769 + 918 1906 + 182 6534 + 1469 1247 + 548 3573 + 750 1601 + 463 1994 + 1344 777 + 468 475 + 147 181 + 34 125 + 7 147 UNCH 40 + 4 90 UNCH 66 UNCH 66 UNCH 68 UNCH 28 UNCH 28 UNCH 28 UNCH 13 UNCH 13 UNCH 13 UNCH 13 UNCH 13 UNCH 13 UNCH 11 UNCH 12 UNCH 13 UNCH 24 + 2 2 + 2 2 + 2 2 + 2 2 + 2 2 + 1 11 UNCH 231042 + 8464
SEP18 2650 2900 3000 3150 3200 3150 3350 3450 3450 3450 3450 3450 3450 3450 3450 4500 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4150 4500 4550 4500 4550 4500 4550 4500 4550 4500 4550 4500 4550 4500 4550 4500 4550 4500 4500 4500 4550 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 4500 -					0.01 UNCH 0.01 U			70 UNCH 27 UNCH 1014 UNCH 6 UNCH 6 UNCH 6 UNCH 6 UNCH 8 UNCH 9 UNCH 9 UNCH 9 UNCH 223 UNCH 223 UNCH 223 UNCH 13 UNCH 154 UNCH 154 UNCH 154 UNCH 176 UNCH 117 UNCH 117 UNCH 11 UNCH 11 UNCH 11 UNCH 11 UNCH 127 UNCH 127 UNCH 127 UNCH 127 UNCH 1288 UNCH 1380 UNCH 139 UNCH 14832 UNCH 1530 UNCH 1530 UNCH 1530 UNCH 1530 UNCH 1530 UNCH 1531 UNCH 1532 UNCH 1533 UNCH 1530 UNCH 1530 UNCH 1530 UNCH 1531 UNCH 1531 UNCH 1532 UNCH 1533 UNCH 1533 UNCH 1530 UNCH 1531 UNCH 1531 UNCH 1532 UNCH 1533 UNCH 1531 UN

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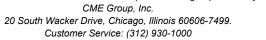


FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	CE.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTER	OPEN REST
LO PUT SEP18		NYMEX CRUDE C	OIL OPTIONS (PHY)										
6600	1.12	1.12	1.14/*0.69 1.29B/*0.81	1.14/*0.69		0.74 - 0.38 0.85 - 0.42	.1905			487 566		3038 +	186 166
6650 6700	1.07 1.43	1.07 1.43	1.46B/*0.94	1.29B/*0.81 1.46B/*0.94		0.97 - 0.47	.2129 .2365			1301	500	2465 + 4546 +	949
6750 6800	1.63 1.85	1.63 1.85	1.64B/*1.07 1.85/*1.20A	1.64B/*1.07 1.85/*1.20A		1.10 - 0.52 1.25 - 0.57	.2613 .2879			382 179		1875 + 1968 +	9 38
6850	2.00	2.00 2.22	2.04B/*1.37A 2.27B/*1.54	2.04B/*1.37A 2.27B/*1.54		1.42 - 0.62 1.60 - 0.67	.3161			130 437	200	1684 + 1769 +	93 267
6900 6950	2.53	2.53	2.53/*1.73A	2.53/*1.73A		1.79 - 0.72	.3742			62		152 +	37
7000 7050	2.83 2.80	2.83 2.80	2.83/*1.93 3.07B/*2.16A	2.83/*1.93 3.07B/*2.16A		2.00 - 0.78 2.23 - 0.83	.4044 .4350			320 41	250 	6394 + 1161 +	84 5
7100 7150	2.98 2.80	2.98 2.80	2.98/*2.39A 3.01B/*2.62	2.98/*2.39A 3.01B/*2.62		2.48 - 0.88 2.74 - 0.94	.4658 .4965			1836 454		2389 + 570 +	1077 347
7200	3.26	3.26	3.29B/*2.93A	3.29B/*2.93A		3.01 - 1.00	.5271			27		351 +	19
7250 7300	3.69	3.69	/*3.21A 3.92B/*3.51	/*3.21A 3.92B/*3.51		3.60 - 1.11	.5573 .5866			7		35 + 168 +	5 2
7350 7400	4.79	4.79	/*3.84A 4.79/*4.17A	/*3.84A 4.79/*4.17A		3.92 - 1.17 4.26 - 1.22	.6153 .6434			4		207 30 +	UNCH 2
7450 7500			/*4.51A /*4.88A	/*4.51A /*4.88A		4.60 - 1.28 4.96 - 1.33	.6701 .6958			2		92 8 -	UNCH 2
7550			/*5.25A	/*5.25A /*5.63A		5.34 - 1.37	.7196					12	UNCH
7600 7650			/*5.63A /*6.02A	/*6.02A		6.12 - 1.47	.7432 .7644					1 2	UNCH UNCH
7700 7750			/*6.43A /*6.84A	/*6.43A /*6.84A		6.52 - 1.52 6.94 - 1.56	.7842 .8038					1 1	UNCH UNCH
8000 10000			/9.03A	/9.03A 		9.14 - 1.72 28.74 - 1.98	.8756 .9978					151 73	UNCH UNCH
20000						128.74 - 1.98	1.0000			23572	3350	34 246021 +	UNCH 1497
TOTAL										23372	3330	240021 +	1497
OCT18 3350						0.01 UNCH						15	UNCH
3500 3550						0.01 UNCH 0.01 UNCH	.0000					827 4	UNCH UNCH
3600 3650						0.01 UNCH 0.01 UNCH	.0000					9 40	UNCH UNCH
3700 3750						0.01 UNCH 0.01 UNCH	.0000					202	UNCH
3800						0.01 UNCH	.0000					172	UNCH
3850 3900						0.01 UNCH 0.01 UNCH	.0001 .0001					311	UNCH
3950 4000						0.01 UNCH 0.01 UNCH	.0002					500 1421	UNCH UNCH
4050 4100						0.01 UNCH 0.01 UNCH	.0003					85 267	UNCH
4150						0.01 UNCH 0.01 UNCH	.0006					6 98	UNCH
4200 4250						0.01 UNCH	.0010					20	UNCH
4300 4350						0.01 UNCH 0.01 UNCH	.0013 .0016					627 27	UNCH UNCH
4400 4450						$ \begin{array}{rrrr} 0.01 & - & 0.01 \\ 0.01 & - & 0.01 \end{array} $.0020 .0025					64 58	UNCH UNCH
4500 4550						0.02 UNCH 0.02 UNCH	.0046			1		3820 - 283	1 UNCH
4600						0.02 UNCH 0.02 - 0.01	.0048					230 26	UNCH
4650 4700	0.03	0.03	0.03/*0.03	0.03/*0.03		0.02 - 0.01	.0051			15		356	UNCH
4750 4800	0.03	0.03	0.03/*0.03	0.03/*0.03		0.03 UNCH 0.03 - 0.01	.0072 .0074					157 689	UNCH UNCH
4850 4900	0.04 0.04	0.04 0.04	0.04/*0.04 0.04/*0.04	0.04/*0.04 0.04/*0.04		0.03 - 0.01 0.04 - 0.01	.0075 .0097			1 46		96 285 -	UNCH 23
4950 5000	0.05 0.06	0.05 0.06	0.05/*0.05 0.06/0.05	0.05/*0.05 0.06/0.05		$ \begin{array}{rrrr} 0.04 & - & 0.01 \\ 0.05 & - & 0.01 \end{array} $.0099 .0121			51 17		47 - 8726 -	37 14
5050 5100	0.06	0.06	0.07/*0.06	0.07/*0.06		0.05 - 0.01 0.06 - 0.01	.0124 .0147					32 368 -	UNCH 2
5150	0.07 0.09	0.07 0.09	0.07/*0.07 0.09/*0.07	0.07/*0.07 0.09/*0.07		0.06 - 0.02 0.07 - 0.02	.0151			1 157		128 1173 -	UNCH
5250 5250	0.10	0.10	0.10/*0.08	0.10/*0.08		0.08 - 0.02	.0197			440		603 +	232
5300 5350	$0.11 \\ 0.12$	0.11 0.12	0.11/*0.09 0.12/*0.11A	0.11/*0.09 0.12/*0.11A		0.09 - 0.02 0.10 - 0.02	.0221 .0246			188 3		1242 - 483 -	68 2
5400 5450	0.12 0.15	0.12 0.15	0.12/*0.11 0.15/*0.13A	0.12/*0.11 0.15/*0.13A		$ \begin{array}{rrrr} 0.11 & - & 0.03 \\ 0.12 & - & 0.03 \end{array} $.0271 .0297			4 31		463 - 274 +	3 26
5500 5550	0.16 0.16	0.16 0.16	0.17/*0.14 0.16/*0.15	0.17/*0.14 0.16/*0.15		0.14 - 0.03 0.15 - 0.05	.0341			217 4		7983 - 158 -	131 1
5600 5650	0.21 0.25	0.21 0.25	0.21/*0.17 0.25/*0.18	0.21/*0.17 0.25/*0.18		0.17 - 0.05 0.19 - 0.06	.0414 .0460			20 267		1016 - 483 +	3 224
5700 5750	0.27	0.27 0.29	0.29B/*0.21 0.30/*0.24	0.29B/*0.21 0.30/*0.24		0.22 - 0.06 0.24 - 0.08	.0524			114 133		671 + 300 +	78 49
5800	0.35	0.35	0.36B/*0.26	0.36B/*0.26 0.43/*0.31		0.27 - 0.09	.0638			1346		1268 -	265 2
5850 5900	0.43	0.43 0.43	0.43/*0.31 0.46B/*0.32	0.46B/*0.32		0.31 - 0.09 0.34 - 0.12	.0720 .0789			16 12 <u>5</u>		1207 + 1154 +	15
5950 6000	0.48 0.57	0.48 0.57	0.52B/*0.38 0.60/*0.41	0.52B/*0.38 0.60/*0.41		0.38 - 0.13 0.43 - 0.15	.0874 .0974			7 494		1262 - 5684 -	1 69
6050 6100	0.51 0.70	0.51 0.70	0.66B/*0.48 0.74B/*0.54	0.66B/*0.48 0.74B/*0.54		0.49 - 0.16 0.55 - 0.18	.1088 .1203			25 69		279 + 940 +	22 19
6150 6200	0.83 0.89	0.83 0.89	0.83/*0.61A 0.93B/*0.67	0.83/*0.61A 0.93B/*0.67		0.61 - 0.20 0.69 - 0.22	.1320 .1462			2 69		283 2963 +	UNCH 17
6250 6300	0.78 1.08	0.78 1.08	1.03B/*0.76 1.15B/*0.85A	1.03B/*0.76 1.15B/*0.85A		0.77 - 0.24 0.86 - 0.27	.1605 .1760			16 423		1166 + 1475 +	12 165
6350	1.15	1.15 1.33	1.28B/*0.94A 1.42B/*1.03	1.28B/*0.94A 1.42B/*1.03		0.96 - 0.30 1.07 - 0.32	.1926			47 182		482 + 1621 -	29 20
6400 6450	1.44	1.44	1.57B/*1.16A	1.57B/*1.16A		1.19 - 0.35	.2289			66		1065 +	26
6500 6550	1.69 1.69	1.69 1.69	1.74/*1.27 1.90B/*1.42	1.74/*1.27 1.90B/*1.42		1.32 - 0.38 1.46 - 0.41	.2484 .2687			575 7		4484 + 1126 +	211 1
6600 6650	2.04 2.27	2.04 2.27	2.08B/*1.54 2.28B/*1.72A	2.08B/*1.54 2.28B/*1.72A		1.60 - 0.45 1.76 - 0.48	.2893 .3111			107 48		4663 + 1047 +	14 31
6700 6750	2.47 2.69	2.47 2.69	2.48B/*1.89A 2.70B/*2.07A	2.48B/*1.89A 2.70B/*2.07A		1.94 - 0.51 2.12 - 0.55	.3340 .3570			240 140		2151 + 199 +	41 97
6800 6850	2.63 3.10	2.63 3.10	2.94B/*2.26A 3.19B/*2.46A	2.94B/*2.26A 3.19B/*2.46A		2.32 - 0.59 2.53 - 0.62	.3808			179 101		318 + 171 +	90 22
6900	3.43 3.09	3.43 3.09	3.45B/*2.68A 3.73B/*2.91A	3.45B/*2.68A 3.73B/*2.91A		2.75 - 0.67 2.98 - 0.71	.4295			179 26	300	633 + 174 +	332 2
6950 7000	3.94	3.94	4.02/*3.15 4.32B/*3.38	4.02/*3.15 4.32B/*3.38		3.23 - 0.75	.4791			143		779 +	33 2
7050 7100	3.38	3.38	4.63B/*3.69A	4.63B/*3.69A		3.49 - 0.80 3.77 - 0.84	.5041					129 + 118	UNCH
7150 7200	4.80	4.80	4.96B/*3.97A 5.30B/4.28A	4.96B/*3.97A 5.30B/4.28A		4.05 - 0.89 4.35 - 0.93	.5533 .5776			6		108 32 +	UNCH 6
7250 7300			5.65B/4.59A 6.02B/4.91A	5.65B/4.59A 6.02B/4.91A		4.67 - 0.97 4.99 - 1.01	.6011 .6246			31 5		22 + 22	18 UNCH
7350 7400			6.39B/5.24A 6.78B/5.58A	6.39B/5.24A 6.78B/5.58A		5.33 - 1.05 5.67 - 1.10	.6471 .6689			1		11 232 +	UNCH 1
7450 7500			7.18B/5.94A /6.31A	7.18B/5.94A /6.31A		6.03 - 1.14 6.40 - 1.18	.6900 .7103			4		64 + 34	4 UNCH
7550	7.09	7.09	7.17B/6.68A /7.07A	7.17B/6.68A /7.07A		6.78 - 1.22 7.17 - 1.25	.7298			4		6 1	UNCH
7600 7650			/7.46A	/7.07A /7.46A /7.86A		7.57 - 1.29	.7658					176	UNCH
7700 7750			/7.86A /8.27A	/8.27A		7.98 - 1.32 8.39 - 1.36	.7822					5 4	UNCH
7800 8000			/8.69A /*10.44A	/8.69A /*10.44A		8.82 - 1.38 10.57 - 1.50	.8123 .8613					5 1	UNCH
8050 8600			/10.91A /*16.09A	/10.91A /*16.09A		11.02 - 1.52 16.20 - 1.69	.8705 .9430					1 1	UNCH
8650 TOTAL			/*16.57A	/*16.57A		16.69 - 1.69	.9478			6407	300	3 72421 +	UNCH 1180
NOV18						_							
2900 3200						0.01 UNCH 0.01 UNCH	.0000					2 1	UNCH UNCH
THE IN	FORMATIO	N CONTAINED IN	THIS REPORT IS CONDITION THAT EPP	MPILED FOR THE CON	IVENIENCE OF THE	USER AND IS FURNISHED THE BASIS FOR ANY CLA	WITHOUT F	RESPONSI	BILITY FO	OR ACCURA	CY OR CO	NTENT. IT	IS
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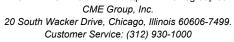


Side 61

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

Column		GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME	(INTEI	OPEN REST
180		-	NYMEX CRUDE C	OIL OPTIONS (PHY)						VOLUME			
The color	3300						0.01 UNCH	.0001				 6	UNCH
\$	3550						0.01 UNCH	.0003				 10	UNCH
170 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	3650						0.01 UNCH	.0006				 16	UNCH
Section Sect	3750	0.01	0.01	0.01/0.01	0.01/0.01		0.01 UNCH	.0009			2	 44	UNCH
STATE OF COLD ST	3850						0.01 UNCH	.0014				 220	UNCH
1.0	3950						0.01 - 0.01	.0021				87	UNCH
200	4100						0.02 UNCH	.0040				 201	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	4200						0.02 - 0.01	.0042				 113	UNCH
100 1	4300						0.03 UNCH	.0061			1	 25 -	1
100 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	4400				/*0.04A		0.03 - 0.01	.0064				 36	UNCH
### ### ### ### ### ### ### ### ### ##	4500 4550	0.05	0.05	0.05/*0.05	0.05/*0.05		0.05 - 0.01	.0102			20	 174 +	12
1.00	4650	0.06	0.06				0.05 - 0.02	.0107			1	 8 -	1
### 15	4750						0.07 - 0.01	.0145				 61	
### STATE OF THE PARTY OF THE P	4850			/*0.09A	/*0.09A		0.08 - 0.02	.0168				 253	UNCH 2
100 0.44 0.45 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	4950 5000	0.13	0.13	0.13/*0.11	0.13/*0.11		0.11 - 0.02	.0229			55	 2072 -	1
2200 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.	5100	0.14	0.14	0.14/*0.14	0.14/*0.14		0.13 - 0.03	.0272			2	 269 -	2
1,000	5200	0.19	0.19	0.19/*0.17	0.19/*0.17		0.16 - 0.04	.0332			10	 796 -	2
1400 0.729 0.729 0.729 0.729 0.729 0.724 0.725 0.725 0.06 0.648 3.66 388 3 3 3 3 3 3 3 3	5300	0.19	0.19 0.24	0.21B/*0.19 0.24/*0.22A	0.21B/*0.19 0.24/*0.22A		0.20 - 0.04 0.22 - 0.05	.0408				 214 +	2
1.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.50	5400 5450	0.29 0.29	0.29 0.29	0.29/*0.24 0.29/*0.26	0.29/*0.24 0.29/*0.26		0.24 - 0.06 0.27 - 0.06	.0488 .0542			67	 388 - 378 -	7
1960 0.49	5550	0.40	0.40	0.41B/*0.33	0.41B/*0.33		0.33 - 0.08	.0653			4	 72 -	2
2750 0.69 0.69 0.69 0.589/**0.494 0.896/**0.494 0.59 0.122 0.9949 1.114 3.372 1.112 2750 0.60 0.777/**0.60 0.61 0.51 1.207/**0.60 0.61 0.61 0.777/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.61 0.51 1.207/**0.60 0.60 0.69 0.60 0.69 0.60 0.60 0.60	5650	0.49	0.49	0.51B/*0.40A	0.51B/*0.40A		0.40 - 0.10	.0781			12	 85 +	8
1	5750	0.60	0.60	0.63B/*0.49A	0.63B/*0.49A		0.50 - 0.12	.0949			114	 372 +	112
9300 0.99 0.99 0.99 0.944/0.73A 0.944/0.73A 0.944/0.73A 0.77 0.18 1.130 1.130 1.100 1.000 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100 1.100	5850	0.60	0.60	0.77B/*0.60 0.85B/*0.65	0.77B/*0.60 0.85B/*0.65		0.61 - 0.14	.1131			25	 327 +	24
\$\frac{1}{2} \frac{1}{2} \frac	5950 6000	0.99	0.99	1.04B/*0.79	1.04B/*0.79		0.82 - 0.19	.1459			378	 2502 +	3
\$200 1.30 1.90 1.99\(\text{start}.16 \) 1.49\(\text{start}.16 \) 1.49\(\text{start}.16 \) 1.79\(\text{start}.100 \) 1.77\(\text{start}.100 \) 1.77\(6100	1.18	1.18	1.25B/*0.96	1.25B/*0.96		0.99 - 0.23	.1712			109	 2133 -	97
1.778/1-1.40A	6200	1.30	1.30	1.49B/*1.16	1.49B/*1.16		1.19 - 0.27	.1994			127	 500 +	1
\$400 1.88 1.88 2.088/1-66 2.088/1-66 1.00 2.039 3.000 2.24 2.649 4.66 4.49 4.660 2.43 2.43 2.43 2.43 2.43 2.43 2.43 2.43	6300			1.77B/*1.40A	1.77B/*1.40A 1.92B/*1.52A		1.43 - 0.30	.2310			8	 590	UNCH
\$\frac{6550}{6550} 2.18 \ 2.18 \ 2.68\rangle 2.217 \ 2.04\rangle 2.200 \ 344 \ 422 \ 3200 \ 344 \ 422 \ 3200 \ 344 \ 422 \ 3200 \ 344 \ 422 \ 3200 \ 344 \ 422 \ 3200 \ 344 \ 422 \ 3200 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \ 345 \	6400			2.08B/*1.66 2.25B/*1.80A	2.08B/*1.66 2.25B/*1.80A		1.70 - 0.34 1.85 - 0.36	.2649 .2828			8	 460 + 844 -	49 6
6650 2.68 2.68 3.059/2.47A 3.099/2.47A 2.33 0.47 3.399 1 2.23 1.047 3.399 1 2.23 1.047 3.399 1 2.23 1.047 3.399 1 2.23 1.047 3.399 1 2.23 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.278 3.25 1.047 3.399 1 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.25 1.047 3.2	6550			2.63B/*2.12A	2.63B/*2.12A		2.17 - 0.42	.3200				 429 +	
\$\frac{6}{25} \text{i} 3, 49 3, 49 3, 518/2, 86a 3, 518/2, 87a 3, 518/2, 87a 3, 518/2, 87a 3, 518/2, 87a 3, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 528/2, 5	6650			3.05B/*2.47A	3.05B/*2.47A		2.53 - 0.47	.3592			1	 293 +	
6850	6750	3.49	3.49	3.51B/*2.86A	3.51B/*2.86A		2.94 - 0.53	.4003				 203	UNCH
7000 4.76 4.76 4.76 4.878/4.04A 4.878/4.04A 4.14 0.699 5066 8 1199 + 8 7059	6850			4.02B/*3.30A 4.29B/*3.53A	4.02B/*3.30A 4.29B/*3.53A		3.38 - 0.60 3.62 - 0.63	.4423 .4637			200	 105 355 +	132
1700	7000	4.76	4.76	4.87B/4.04A	4.87B/4.04A		4.14 - 0.69	.5066			8	 119 +	8
17200	7100			5.49B/4.59A	5.49B/4.59A		4.70 - 0.76	.5489				 334	UNCH
7300	7200			6.17B/5.20A	6.17B/5.20A		5.30 - 0.83	.5904			1	 30 -	1
7456 8.028/6.86A 8.028/6.86A 6.98 -1.01 .6880 57 UNCH 7500 8.4247/23A 8.4287/23A 7.35 1.04 7.057 38 UNCH 7550 8.528/7.60A 8.828/7.60A 7.357 1.04 7.057 38 UNCH 7550 8.528/7.60A 8.828/7.60A 7.357 1.04 7.255 28 UNCH 7550 8.528/7.60A 8.828/7.60A 7.357 1.06 7.228 28 UNCH 7550 9.568/8.37A 9.668/8.37A 8.51 -1.12 7.549 22 UNCH 7700 10.098/8.77A 10.098/8.77A 8.51 -1.12 7.549 22 UNCH 7700 10.098/8.77A 10.098/8.77A 8.51 -1.12 7.549 22 UNCH 7700 11.418/10.00A	7300	5.84	5.84	6.88B/5.83A 7.25B/6.17A	6.88B/5.83A 7.25B/6.17A		5.94 - 0.91 6.28 - 0.94	.6311 .6506				 53	1 UNCH
7550	7450			8.02B/6.86A	8.02B/6.86A		6.98 - 1.01	.6880				 57	UNCH
7650 9,668/8.37A 9,668/8.37A 8.51 1.12 7.7549 2 UNCH 77700 10.098/8.77A 8.51 1.15 7.7692 2 UNCH 7800 10.63 10.988/8.77A 10.098/8.77A 8.51 1.15 7.7692 2 UNCH 7800 10.63 10.988/9.758A 10.986/9.58A 9.74 1.20 7.966 1 9 + 1 1.481/10.09A 11.481/10.09A 11.481	7550			8.82B/7.60A	8.82B/7.60A		7.73 - 1.06	.7226				 26	UNCH
7800 10.63 10.63 10.968/9.58A 10.968/9.58A 10.968/9.58A	7650			9.66B/8.37A	9.66B/8.37A		8.51 - 1.12	.7549				 2	UNCH
\$200	7800 7850			11.41B/10.00A	11.41B/10.00A		10.16 - 1.23	.8098					1 UNCH
15.59 1.45 9119	8200			14.65B/*13.09	14.65B/*13.09		13.26 - 1.38	.8806					UNCH
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1415 UNCH 1415	3050 3100						0.01 UNCH	.0002				 1027	UNCH
0.01	3200						0.01 UNCH	.0003				 1415	UNCH
3400	3300						0.01 UNCH	.0005				 558	UNCH
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3400						0.01 UNCH 0.01 UNCH	.0008				 47 4 5	UNCH UNCH
3650 0.02 UNCH .0035 253 UNCH 3700 253 UNCH .0035 253 UNCH .0035 253 UNCH .0035 253 UNCH .0036 1 1 2115 + 11 .0036 1 1 2115 + 1 .0038	3500 3550						0.01 UNCH 0.01 - 0.01	.0016				 1	UNCH UNCH
3750 0.03 0.03 0.03/*0.03 0.03/*0.03 0.02 UNCH .0036 1 2115 + 1 3800 0.03 0.03 0.03/*0.03 0.03/*0.03 0.02 - 0.01 .0037 1 1440 UNCH 3850 0.02 - 0.01 .0037 1 1440 UNCH 3850 0.03 0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*0.03 0.03/*	3650						0.02 UNCH	.0035				 6	UNCH
3850 0.02 - 0.01 .0037 62 UNCH 3900 0.03 0.03 0.03/*0.03 0.03/*0.03 0.03 UNCH .0053 20 1257 1257 0.03 UNCH .0053 20 915 UNCH	3750	0.03	0.03	0.03/*0.03	0.03/*0.03		0.02 UNCH	.0036			1	 2115 +	1
3950 0.03 - 0.01 .0054 915 UNCH	3850						0.02 - 0.01	.0037				 62	UNCH
	3950						0.03 - 0.01	.0054				 915	UNCH



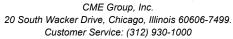




Side 62

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	Ε.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN REST
LO PUT DEC18	-	NYMEX CRUDE (OIL OPTIONS (PHY)										
4050 4100						0.03 - 0.01 0.04 - 0.01	.0057 .0073					103 1722	UNCH UNCH
4150 4200	0.05	0.05	0.06/*0.05	0.06/*0.05		0.04 - 0.01 0.05 - 0.01	.0074			1 177		381 5997	UNCH UNCH
4250 4300						0.05 - 0.01 0.06 - 0.01	.0092			1		670 3540	UNCH UNCH
4350 4400	0.08 0.09	0.08 0.09	0.08/*0.07A 0.09/*0.07	0.08/*0.07A 0.09/*0.07		0.06 - 0.02 0.07 - 0.01	.0111 .0127			2 15		559 1816 -	UNCH 14
4450 4500	0.08 0.11	0.08 0.11	0.08/*0.08 0.11/*0.08	0.08/*0.08 0.11/*0.08		0.07 - 0.02 0.08 - 0.02	.0130			3 2424		518 25853 +	UNCH 53
4550 4600	0.10 0.12	0.10 0.12	0.10/*0.10 0.12/*0.10	0.10/*0.10 0.12/*0.10		0.09 - 0.02 0.10 - 0.02	.0165			2 4		2238 1641 -	UNCH 3
4650 4700	0.13	0.13	/*0.12A 0.13/*0.12	/*0.12A 0.13/*0.12		0.11 - 0.02 0.12 - 0.02	.0200			 16		88 3419 -	UNCH
4750 4800	0.15	0.15	/*0.14A 0.15/*0.15	/*0.14A 0.15/*0.15		0.13 - 0.02 0.14 - 0.02	.0236			 206	400	1292 5527 +	UNCH 384
4850 4900	0.18 0.19	0.18 0.19	0.18/*0.16A 0.19/*0.16	0.18/*0.16A 0.19/*0.16		0.15 - 0.03 0.16 - 0.04	.0275			31 5		1193 2150	UNCH
4950	0.19	0.19	/*0.19A 0.23/*0.19	/*0.19A 0.23/*0.19		0.18 - 0.04 0.20 - 0.04	.0328			900	400	281 39479 +	UNCH
5000 5050	0.21	0.21	0.22B/*0.21	0.22B/*0.21		0.22 - 0.04	.0396			7		1614 + 4119 -	232
5100 5150	0.27	0.27	0.27/*0.24 0.30/*0.25 0.33/*0.27	0.27/*0.24 0.30/*0.25 0.33/*0.27		0.24 - 0.05 0.26 - 0.05 0.29 - 0.05	.0430			129 8		972 + 4038 +	24 3
5200 5250	0.32	0.32	0.33/*0.27 0.39/*0.31 0.41/*0.33	0.35/*0.27 0.39/*0.31 0.41/*0.33		0.32 - 0.06	.0514			1362 26		1280 +	577 12
5300 5350	0.41	0.41 0.45	0.46B/*0.38A	0.46B/*0.38A		0.35 - 0.06 0.38 - 0.07	.0611			34		2184 + 1100	18 UNCH
5400 5450	0.51 0.47	0.51 0.47	0.51/*0.42A 0.50B/*0.46A	0.51/*0.42A 0.50B/*0.46A		0.42 - 0.08 0.46 - 0.09	.0723			28 4		2050 - 612 +	1 3
5500 5550	0.66 0.66	0.66 0.66	0.66/*0.50 0.67в/*0.55	0.66/*0.50 0.67B/*0.55		0.51 - 0.09 0.56 - 0.10	.0859			1462 123	800	20516 + 1751 +	213 21
5600 5650	0.74	0.74	0.74/*0.60 /*0.66A	0.74/*0.60 /*0.66A		0.62 - 0.10 0.68 - 0.12	.1018 .1104			17		5087 + 2807	UNCH
5700 5750	0.84	0.84	0.88B/*0.72A 0.96B/*0.79A	0.88B/*0.72A 0.96B/*0.79A		$ \begin{array}{rrrr} 0.74 & - & 0.13 \\ 0.81 & - & 0.14 \end{array} $.1190 .1286			217 127		3898 - 2992 -	102 124
5800 5850	1.01	1.01	1.05B/*0.86 1.15B/*0.94A	1.05B/*0.86 1.15B/*0.94A		0.89 - 0.15 0.97 - 0.16	.1391 .1497			19		3389 + 2534	UNCH
5900 5950	1.05	1.05	1.25B/*1.03 1.36B/*1.12A	1.25B/*1.03 1.36B/*1.12A		1.05 - 0.18 1.15 - 0.19	.1605 .1728			16 		1765 - 1055	8 UNCH
6000 6050	1.46	1.46	1.47B/*1.20 1.59B/*1.32A	1.47B/*1.20 1.59B/*1.32A		1.25 - 0.20 1.35 - 0.22	.1851 .1976			1745 	900	23211 + 664	750 UNCH
6100 6150	1.45	1.45	1.72B/*1.43A 1.86B/*1.55A	1.72B/*1.43A 1.86B/*1.55A		1.47 - 0.23 1.59 - 0.24	.2115 .2254			1 		1193 606	UNCH UNCH
6200 6250	1.94 2.07	1.94 2.07	2.00B/*1.67A 2.16B/*1.80A	2.00B/*1.67A 2.16B/*1.80A		1.71 - 0.27 1.85 - 0.28	.2395 .2547			408 2		2193 - 545 -	67 1
6300 6350	2.30 2.12	2.30 2.12	2.32B/*1.94A 2.49B/*2.08	2.32B/*1.94A 2.49B/*2.08		1.99 - 0.30 2.15 - 0.30	.2701 .2863			27 50		3799 1649 -	UNCH 4
6400 6450	2.55	2.55	2.67B/*2.24 2.85B/*2.40A	2.67B/*2.24 2.85B/*2.40A		2.30 - 0.33 2.47 - 0.35	.3024			14		2382 276	UNCH UNCH
6500 6550	2.89	2.89	3.05B/*2.56 3.26B/*2.75A	3.05B/*2.56 3.26B/*2.75A		2.65 - 0.36 2.84 - 0.37	.3366			1186 50		8431 + 683 +	472 50
6600 6650	3.23	3.23	3.48B/*2.94A 3.70B/*3.14A	3.48B/*2.94A 3.70B/*3.14A		3.03 - 0.40 3.23 - 0.42	.3721			305 7	2000	5001 - 328	714 UNCH
6700 6750	3.85 4.00	3.85 4.00	3.94B/*3.35A 4.18B/*3.56A	3.94B/*3.35A 4.18B/*3.56A		3.44 - 0.45 3.65 - 0.48	.4087			, 7 35		1543 - 460 +	1 33
6800 6850	4.25	4.25	4.44B/*3.77 4.71B/4.02A	4.44B/*3.77 4.71B/4.02A		3.88 - 0.51 4.12 - 0.54	.4463			112 15		530 + 252 +	19 10
6900	4.64	4.64	4.99B/4.27A 5.28B/4.52A	4.99B/4.27A 5.28B/4.52A		4.37 - 0.56 4.64 - 0.58	.4845			25		1014 - 514	16 UNCH
6950 7000	5.40	5.40	5.57B/4.79A 5.88B/5.06A	5.57B/4.79A 5.88B/5.06A		4.91 - 0.61 5.19 - 0.64	.5228			141		1467 +	6 1
7050 7100			6.20B/5.35A 6.53B/5.65A	6.20B/5.35A		5.49 - 0.66 5.79 - 0.69	.5606					167 - 577	UNCH UNCH
7150 7200			6.87B/5.97A	6.53B/5.65A 6.87B/5.97A		6.10 - 0.72	.5791			1		61 35	UNCH
7250 7300			7.21B/6.29A 7.57B/6.61A	7.21B/6.29A 7.57B/6.61A		6.42 - 0.74 6.75 - 0.77	.6154					20 48	UNCH
7350 7400			7.94B/6.94A 8.31B/7.28A	7.94B/6.94A 8.31B/7.28A		7.09 - 0.80 7.44 - 0.82	.6508					12 46	UNCH
7450 7500			8.70B/7.63A 9.09B/7.99A	8.70B/7.63A 9.09B/7.99A		7.79 - 0.86 8.16 - 0.88	.6843 .7002					15 857	UNCH
7550 7600			9.49B/8.36A 9.89B/8.74A	9.49B/8.36A 9.89B/8.74A		8.53 - 0.90 8.91 - 0.93	.7161 .7314					24 5	UNCH
7650 7700	10.00	10.00	#10.11B/*9.12 10.73B/9.51A	#10.11B/*9.12 10.73B/9.51A		9.30 NEW 9.69 - 0.98	.7451 .7597			1 		1 + 25	1 UNCH
7750 7850			11.14B/9.91A 12.01B/10.74A	11.14B/9.91A 12.01B/10.74A		10.09 - 1.00 10.92 - 1.04	.7726 .7983					1	UNCH
7900 7950			12.46B/11.14A 12.90B/11.58A	12.46B/11.14A 12.90B/11.58A		11.34 - 1.06 11.76 - 1.09	.8092 .8212					1	UNCH UNCH
8000 8100	.====		13.35B/12.00A 14.28B/12.87A	13.35B/12.00A 14.28B/12.87A		12.20 - 1.11 13.07 - 1.16	.8310 .8505					885 3	UNCH
8200 8300	13.85	13.85	15.21B/13.77A 16.16B/14.68A	15.21B/13.77A 16.16B/14.68A		13.97 - 1.19 14.88 - 1.22	.8676 .8820			1 		1 - 100	1 UNCH
8400 10000			17.11B/*15.60, /*32.58A	17.11B/*15.60, /*32.58A		15.81 - 1.24 31.40 - 1.43	.8949 .9774					1004 1174	UNCH UNCH
TOTAL										11526	4500	289437 +	1768
JAN19 2100						0.01 UNCH 0.02 UNCH	.0011					3 1001	UNCH UNCH
3500 3600						0.02 - 0.01	.0035					1001 13 1	UNCH
3700 3800						0.04 UNCH	.0066					1 1 1	UNCH
3850 3900						$\begin{array}{cccc} 0.04 & - & 0.01 \\ 0.04 & - & 0.01 \\ 0.05 & - & 0.01 \end{array}$.0067 .0068 .0083					300	UNCH
3950 4000						0.05 - 0.01	.0085					415	UNCH
4100 4200						0.08 - 0.01	.0115					13 7 6	UNCH
4250 4300			0.12B/	0.12B/		0.10 - 0.01	.0148					149	UNCH
4350 4400						0.12 - 0.01	.0179					6 338	UNCH
4450 4500	0.15 0.15	0.15 0.15	0.15/*0.14A 0.15/*0.15	0.15/*0.14A 0.15/*0.15		0.13 - 0.02 0.14 - 0.02	.0212			1 13		51 <u>0</u>	UNCH
4550 4600			/*0.16A /*0.18A	/*0.16A /*0.18A		0.15 - 0.02 0.17 - 0.02	.0246					7 106	UNCH
4650 4700	0.21 0.21	0.21 0.21	0.21/*0.19A 0.22B/*0.19	0.21/*0.19A 0.22B/*0.19		0.18 - 0.03 0.20 - 0.03	.0292			1 14		8 + 203 +	6
4750 4800			/*0.22A /*0.24A	/*0.22A /*0.24A		0.22 - 0.03 0.24 - 0.03	.0352			2 1		39 - 33 -	1 1
4850 4900			/*0.26A /*0.29A	/*0.26A /*0.29A		0.26 - 0.04 0.28 - 0.04	.0413					5 20	UNCH
4950 5000	0.39	0.39	/*0.31A 0.39/*0.32	/*0.31A 0.39/*0.32		0.31 - 0.04 0.34 - 0.05	.0487			10		32 1405 +	UNCH 5
5050 5100	0.46	0.46	/*0.37A 0.46/*0.40	/*0.37A 0.46/*0.40		0.37 - 0.05 0.41 - 0.05	.0574 .0628			9		26 17 -	UNCH 4
5150 5200	0.49 0.54	0.49 0.54	0.50B/*0.44A 0.55/*0.48A	0.50B/*0.44A 0.55/*0.48A		0.45 - 0.06 0.49 - 0.07	.0682 .0737			1 4		6 + 215 +	1 3
5250 5300	0.59 0.64	0.59 0.64	0.59/*0.52A 0.65B/*0.57A	0.59/*0.52A 0.65B/*0.57A		0.53 - 0.08 0.58 - 0.08	.0793 .0858			3 4		159 + 138 +	3 4
5350 5400	0.71 0.77	0.71 0.77	0.71/*0.62A 0.77/*0.67	0.71/*0.62A 0.77/*0.67		0.63 - 0.09 0.69 - 0.10	.0924 .0999			2 9		57 + 413 +	2 5
5450 5500	0.90	0.90	0.86B/*0.74A 0.94B/*0.80	0.86B/*0.74A 0.94B/*0.80		0.75 - 0.10 0.82 - 0.11	.1075 .1159			2 3		62 - 950 +	2 2
5550 5600	1.05	1.05	1.02B/*0.87A 1.10B/*0.94	1.02B/*0.87A 1.10B/*0.94		0.89 - 0.11 0.96 - 0.13	.1244			 5		7 82 +	UNCH 3
5650	1.06	1.06	1.19B/*1.00	1.19B/*1.00		1.04 - 0.14	.1423			41		573 +	35
ACCEPT	ED BY TH	E USER ON THE C	ONDITION THAT ERRO	ORS OR OMISSIONS S	HALL NOT BE MAI	E USER AND IS FURNISHED W DE THE BASIS FOR ANY CLAI	M, DEMAN	ND, OR C	AUSE FOR	ACTION.	CI OK CC	ONTENT. IT	10







PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

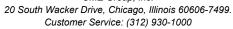
PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S S	SETTLEMENT PRIC	Ε.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTER	OPEN REST
LO PUT JAN19	-	NYMEX CRUDE C	OIL OPTIONS (PHY)										
5700 5750	1.17	1.17	1.29B/*1.10A 1.39B/*1.17	1.29B/*1.10A 1.39B/*1.17		1.13 - 0.14 1.22 - 0.15	.1524 .1626			 3		282 7 +	UNCH 3
5800	1.28	1.28	1.50B/*1.28 1.62B/*1.38A	1.50B/*1.28 1.62B/*1.38A		1.31 - 0.16 1.41 - 0.17	.1729					125 + 102	1 UNCH
5850 5900			1.73B/*1.48A 1.86B/*1.59A	1.73B/*1.48A 1.86B/*1.59A		1.52 - 0.18 1.63 - 0.20	.1956					25 67	UNCH
5950 6000	1.82	1.82	1.99B/*1.70A	1.99B/*1.70A		1.75 - 0.21	.2197			22		3870 +	UNCH 10
6050 6100	2.18	2.18	2.13B/*1.82A 2.28B/*1.95A	2.13B/*1.82A 2.28B/*1.95A		1.88 - 0.22 2.01 - 0.23	.2327			1		29 704 +	UNCH 1
6150 6200			2.43B/*2.09A 2.59B/*2.23A	2.43B/*2.09A 2.59B/*2.23A		2.15 - 0.24 2.29 - 0.26	.2593 .2731					8 311	UNCH UNCH
6250 6300			2.75B/*2.37A 2.93B/*2.53A	2.75B/*2.37A 2.93B/*2.53A		2.44 - 0.27 2.60 - 0.29	.2873 .3020					61 841	UNCH UNCH
6350 6400			3.11B/*2.69A 3.30B/*2.86A	3.11B/*2.69A 3.30B/*2.86A		2.77 - 0.30 2.94 - 0.31	.3171 .3323			103		54 213 +	UNCH 101
6450 6500	3.38	3.38	3.50B/*3.03A 3.70B/*3.22A	3.50B/*3.03A 3.70B/*3.22A		3.12 - 0.33 3.31 - 0.34	.3480 .3639			16	200	124 1115 +	UNCH 215
6550 6600	4.09	4.09	3.92B/*3.41A 4.15B/*3.61A	3.92B/*3.41A 4.15B/*3.61A		3.51 - 0.36 3.71 - 0.38	.3802 .3966			4		36 6 +	UNCH 4
6650 6700			#4.38B/*3.82A 4.62B/4.03A	#4.38B/*3.82A 4.62B/4.03A		3.93 - 0.39 4.15 - 0.41	.4134			16		100 17 +	UNCH 2
6750 6800	4.75	4.75	4.88B/*4.26A 5.14B/*4.49A	4.88B/*4.26A 5.14B/*4.49A		4.38 - 0.43 4.63 - 0.44	.4474			2		1 4	UNCH UNCH
7000			6.28B/*5.55A 6.91B/*6.13A	6.28B/*5.55A 6.91B/*6.13A		5.68 - 0.53 6.26 - 0.57	.5334			10		30 + 14	10 UNCH
7100 7150			7.24B/6.43A	7.24B/6.43A		6.57 - 0.59	.5844			10		20 - 3	6
7200 7250			7.58B/6.74A 7.92B/7.05A	7.58B/6.74A 7.92B/7.05A		7.20 - 0.64	.6175					13	UNCH
7400 7500			9.01B/8.06A 9.77B/8.76A	9.01B/8.06A 9.77B/8.76A		8.21 - 0.72 8.93 - 0.76	.6646 .6946					2 1	UNCH
7700 7750			11.38B/*10.27 11.80B/10.66A	11.38B/*10.27 11.80B/10.66A		10.46 - 0.84 10.85 - 0.87	.7487 .7612					1 1	UNCH UNCH
7800 8300			12.23B/*11.05, 16.73B/15.36A	12.23B/*11.05, 16.73B/15.36A		11.26 - 0.88 15.58 - 1.06	.7729 .8662					1 1	UNCH UNCH
8500 TOTAL			18.62B/17.18A	18.62B/17.18A		17.42 - 1.11	.8922			313	200	1 15524 +	UNCH 403
FEB19													
2200 2500						0.01 UNCH 0.01 UNCH	.0000 .0001					200 100	UNCH UNCH
2800 3000						0.01 UNCH 0.01 UNCH	.0007 .0016					200 3	UNCH UNCH
3200 3400						0.02 UNCH 0.03 UNCH	.0030					400 577	UNCH
3500	0.04	0.04	0.04/*0.04	0.04/*0.04		0.04 UNCH 0.04 UNCH	.0060			2		6 + 4	2 UNCH
3550 3600						0.04 UNCH	.0062					1 1	UNCH
3650 3700	0.05	0.05	0.05/*0.05	0.05/*0.05		0.05 UNCH	.0077			114		114 +	UNCH 113
3750 3900						0.06 UNCH 0.07 - 0.01	.0090 .0108					3	UNCH
4000 4050	0.10	0.10	0.10/*0.10	0.10/*0.10		0.09 UNCH 0.10 UNCH	.0136 .0151			10		416 70 +	UNCH 10
4200 4250	0.13	0.13	0.13/*0.13	0.13/*0.13		0.13 UNCH 0.14 - 0.01	.0195 .0210			20 		261 - 1	5 UNCH
4300 4350						0.15 - 0.01 0.17 - 0.01	.0226 .0252					3 3	UNCH UNCH
4400 4450			/*0.19A /*0.21A	/*0.19A /*0.21A		0.18 - 0.02 0.20 - 0.02	.0268 .0295					55 43	UNCH UNCH
4500 4550	0.24	0.24	0.24/0.23A /*0.24A	0.24/0.23A /*0.24A		0.21 - 0.03 0.23 - 0.03	.0312 .0340			2		986 3	UNCH
4600 4650	0.25	0.25 0.30	0.26B/*0.25 0.30/*0.29A	0.26B/*0.25 0.30/*0.29A		0.25 - 0.04 0.28 - 0.03	.0368			58 1		583 - 27 -	22
4700 4750	0.30	0.30	0.32B/*0.30 /*0.34A	0.32B/*0.30 /*0.34A		0.30 - 0.04 0.33 - 0.05	.0435			2		122 +	1 UNCH
4800	0.40	0.40	/*0.37A 0.41B/*0.40	/*0.37A 0.41B/*0.40		0.36 - 0.05 0.40 - 0.05	.0514			 9		244 10 -	UNCH 5
4850 4900	0.44	0.44	0.45B/*0.43A 0.54B/*0.47A	0.41B/ 0.40 0.45B/*0.43A 0.54B/*0.47A		0.43 - 0.06	.0603			2		573 -	2
4950 5000	0.58	0.58	0.59B/*0.50	0.59B/*0.50		0.47 - 0.06 0.52 - 0.06	.0653 .0712			6		11 1021 +	UNCH 3
5050 5100	0.58	0.58	0.64B/*0.56A 0.70B/*0.58	0.64B/*0.56A 0.70B/*0.58		0.56 - 0.07 0.62 - 0.07	.0762 .0830			151		9 382 +	UNCH 150
5150 5200	0.74	0.74	0.76B/*0.66A 0.82B/*0.72A	0.76B/*0.66A 0.82B/*0.72A		0.67 - 0.08 0.73 - 0.08	.0890 .0958			1		4 412	UNCH UNCH
5250 5300	0.91	0.91	0.90B/*0.78A 0.97B/*0.84A	0.90B/*0.78A 0.97B/*0.84A		0.79 - 0.08 0.85 - 0.10	.1026 .1095			1		15 80 +	UNCH 1
5350 5400			1.05B/*0.91A 1.13B/*0.98A	1.05B/*0.91A 1.13B/*0.98A		0.92 - 0.10 1.00 - 0.10	.1172 .1256					2 81	UNCH UNCH
5450 5500	1.26	1.26	1.22B/*1.05A 1.31B/*1.13	1.22B/*1.05A 1.31B/*1.13		1.08 - 0.11 1.16 - 0.12	.1341 .1426			33		5 418 +	UNCH 33
5550 5600	1.22 1.40	1.22 1.40	#1.30B/*1.22 1.51B/*1.29	#1.30B/*1.22 1.51B/*1.29		1.25 NEW 1.34 - 0.14	.1518 .1611			1 256		1 + 352 +	1 246
5650 5700			1.61B/*1.41A 1.72B/*1.51A	1.61B/*1.41A 1.72B/*1.51A		1.44 - 0.14 1.54 - 0.15	.1710 .1809					1 167	UNCH
5750 5800	1.69	1.69	1.84B/*1.61A 1.96B/*1.68	1.84B/*1.61A 1.96B/*1.68		1.65 - 0.16 1.76 - 0.17	.1915			 82		65 232 +	UNCH 68
5850 5900			2.09B/*1.84A 2.22B/*1.96A	2.09B/*1.84A 2.22B/*1.96A		1.88 - 0.17 2.00 - 0.18	.2134					45 413	UNCH UNCH
5950	2.42	2.42	2.36B/*2.08A 2.50B/*2.21	2.36B/*2.08A 2.50B/*2.21		2.13 - 0.19	.2365			 27		165 956 +	UNCH 27
6000 6050	2.42 	2.42 	2.50B/*2.21 2.66B/*2.35A 2.81B/*2.49A	2.50B/*2.21 2.66B/*2.35A 2.81B/*2.49A		2.40 - 0.21	.2484					58 51	UNCH
6100 6150			2.97B/*2.64A	2.97B/*2.64A		2.69 - 0.23	.2734					150	UNCH
6200 6300			3.14B/*2.79A 3.50B/*3.12A	3.14B/*2.79A 3.50B/*3.12A		2.85 - 0.24 3.18 - 0.26	.2999 .3274					4 55	UNCH
6350 6400			3.69B/*3.29A 3.89B/*3.47A	3.69B/*3.29A 3.89B/*3.47A		3.36 - 0.27 3.54 - 0.29	.3417 .3562					100 113	UNCH
6450 6500			4.10B/*3.65A 4.31B/*3.84A	4.10B/*3.65A 4.31B/*3.84A		3.73 - 0.30 3.93 - 0.31	.3709 .3860					81 139	UNCH UNCH
6550 6600	4.57	4.57	4.54B/*4.04A 4.77B/4.25A	4.54B/*4.04A 4.77B/4.25A		4.13 - 0.33 4.34 - 0.35	.4012 .4167			1		16 66	UNCH UNCH
6650 6700			5.01B/*4.47A 5.25B/*4.69A	5.01B/*4.47A 5.25B/*4.69A		4.56 - 0.36 4.79 - 0.38	.4324					6 2	UNCH
6750 6800			5.50B/4.92A 5.77B/5.16A	5.50B/4.92A 5.77B/5.16A		5.03 - 0.39 5.28 - 0.41	.4642					200 393	UNCH
6850			6.05B/5.40A 6.34B/5.67A	6.05B/5.40A 6.34B/5.67A		5.54 - 0.42 5.81 - 0.43	.4962					63 60	UNCH
6900 6950			6.63B/5.95A	6.63B/5.95A		6.08 - 0.45	.5286					60	UNCH
7000 7050			6.93B/*6.23A 7.24B/6.53A	6.93B/*6.23A 7.24B/6.53A		6.36 - 0.47 6.66 - 0.48	.5440					6 35	UNCH
7150 7300			7.89B/7.12A #8.93B/*8.08A	7.89B/7.12A #8.93B/*8.08A		7.26 - 0.52 8.23 - 0.59	.5912 .6390					4 1	UNCH
7400 7500	9.54	9.54	#9.66B/*8.75A #9.94B/*9.54	#9.66B/*8.75A #9.94B/*9.54		8.92 - 0.63 9.65 NEW	.6655 .6929			20		1 10 +	UNCH 10
TOTAL										799		11524 +	630
MAR19 2500						0.01 UNCH	.0013					100	UNCH
3000 3200						0.02 UNCH 0.03 UNCH	.0028					700 212	UNCH
3500 3800						0.06 UNCH 0.09 - 0.01	.0083 .0128					300 250	UNCH UNCH
3900 4000						$ \begin{array}{rrrr} 0.11 & - & 0.01 \\ 0.13 & - & 0.01 \end{array} $.0155 .0183					100 4276	UNCH UNCH
4050 4150						0.15 UNCH 0.17 - 0.02	.0207 .0236					1 1	UNCH UNCH
4200						0.19 - 0.01	.0261					410	UNCH
int IN	II.OKMA I TOI	A CONTAINED IN	THIS KEPUKI IS COM	TILED FOR THE CON	A TIMITEINCE OF THE	USER AND IS FURNISHED W	ııı⊓∪UI KE	LOPUNSI	DILLIY FO	on ACCUKA	ci uk co	ATENT. II	13

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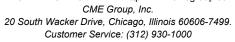




FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
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INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	OI INTERI	PEN EST
LO PUT MAR19			OIL OPTIONS (PHY)	0 22 /*0 21		0.22 0.02	0202		6		22 .	_
4300 4350	0.21	0.21 0.22	0.22/*0.21 #0.22/*0.22	0.22/*0.21 #0.22/*0.22		0.22 - 0.02 0.24 NEW 0.26 - 0.03	.0302 .0327 .0353		6 3 		22 + 3 + 301	6 3 UNCH
4400 4450						0.20 - 0.03 0.29 - 0.03 0.31 - 0.04	.0389		201		2 2 2125 +	UNCH
4500 4550 4600						0.34 - 0.04 0.37 - 0.04	.0452				1 1 15	UNCH UNCH
4650 4700	0.41 0.46	0.41 0.46	0.41/*0.41 #0.46/*0.45	0.41/*0.41 #0.46/*0.45		0.40 - 0.05 0.44 NEW	.0525		1 2		10 - 2 +	1 2
4800 4900	0.53	0.53 0.65	0.53/*0.53 #0.65/*0.65	0.53/*0.53 #0.65/*0.65		0.52 - 0.06 0.61 NEW	.0663		2 1		4 + 1 +	2 1
5000 5200	7772		0.80B/*0.76A 1.09B/*1.02A	0.80B/*0.76A 1.09B/*1.02A		0.72 - 0.07 0.98 - 0.09	.0882 .1151		15 		9437 + 700	1 UNCH
5300 5400	1.16	1.16	1.25B/*1.16 1.44B/*1.34A	1.25B/*1.16 1.44B/*1.34A		1.14 - 0.10 1.31 - 0.11	.1308				300	UNCH
5450 5500	1.38	1.38	#1.45B/*1.38 1.64B/*1.53A	#1.45B/*1.38 1.64B/*1.53A		1.41 NEW 1.50 - 0.12 1.71 - 0.13	.1562 .1649		5 14 		5 + 5985	UNCH
5600 5700			1.87B/*1.73A 2.12B/*1.95A 2.24B/*2.07A	1.87B/*1.73A 2.12B/*1.95A 2.24B/*2.07A		1.71 - 0.13 1.94 - 0.14 2.06 - 0.14	.1838 .2040 .2144				300 500 100	UNCH UNCH UNCH
5750 5800 5850			2.37B/*2.19A 2.51B/*2.32A	2.37B/*2.19A 2.51B/*2.32A		2.18 - 0.15 2.31 - 0.16	.2249				728 31	UNCH
5900 5950			2.66B/*2.45A 2.80B/*2.59A	2.66B/*2.45A 2.80B/*2.59A		2.45 - 0.16 2.59 - 0.17	.2473				340 300	UNCH
6000 6050	2.91	2.91	2.96B/*2.73A #2.99/*2.88A	2.96B/*2.73A #2.99/*2.88A		2.73 - 0.18 2.88 NEW	.2705 .2825		5 3		10350 2 +	UNCH 2
6100 6200			3.29B/*3.04A 3.63B/*3.36A	3.29B/*3.04A 3.63B/*3.36A		3.03 - 0.21 3.35 - 0.23	.2947			200	200 649 -	UNCH 35
6300 6350			4.01B/*3.70A 4.22B/*3.88A	4.01B/*3.70A 4.22B/*3.88A		3.70 - 0.26 3.88 - 0.27	.3466				148 1142	UNCH
6400 6450			4.42B/*4.07A 4.63B/*4.26A 4.85B/*4.46A	4.42B/*4.07A 4.63B/*4.26A 4.85B/*4.46A		4.07 - 0.28 4.27 - 0.29 4.48 - 0.30	.3741 .3882 .4025				136 84 2049	UNCH UNCH UNCH
6500 6550 6600			5.06B/*4.66A 5.29B/*4.88A	5.06B/*4.66A 5.29B/*4.88A		4.69 - 0.31 4.91 - 0.33	.4170				31 306	UNCH
6650 6700			5.54B/*5.10A 5.79B/*5.32A	5.54B/*5.10A 5.79B/*5.32A		5.14 - 0.34 5.38 - 0.35	.4466				16 1	UNCH
6750 6800			6.04B/*5.56A 6.32B/*5.80A	6.04B/*5.56A 6.32B/*5.80A		5.62 - 0.37 5.87 - 0.38	.4767 .4917				8 6 49	UNCH
6850 7000			/*6.05A /*6.88A	/*6.05A /*6.88A		6.12 - 0.41 6.94 - 0.47	.5069 .5526				175 900	UNCH UNCH
TOTAL APR19									261	200	43889 -	9
3200 3800						0.05 + 0.01 $0.15 + 0.01$.0065 .0190				12 400	UNCH UNCH
4300 5000						0.33 - 0.01 0.99 - 0.03	.0405				400 101	UNCH
5500 TOTAL						1.91 - 0.05	.1868				250 1163	UNCH
MAY19												
3400 3500						0.10 UNCH 0.12 UNCH	.0122				12 50	UNCH
4500 6000	3.80	3.80	3.80/*3.80	3.80/*3.80		0.58 - 0.05 3.65 - 0.15 4.53 - 0.19	.0642 .3041 .3628		1		7 101 1	UNCH UNCH UNCH
6250 TOTAL						4.33 - 0.19	.3020		1		171	UNCH
JUN19 1800						0.01 UNCH	.0000				3	UNCH
2000 2200						0.01 UNCH 0.01 UNCH	.0002				8 50	UNCH UNCH
2400 2500						0.01 UNCH 0.02 UNCH	.0013				100 55	UNCH
3000 3400	0.13	0.13	 0.13/*0.13	 0.13/*0.13		0.06 UNCH 0.12 - 0.01 0.15 - 0.01	.0071 .0141 .0173		 2		1491 200 8523	UNCH UNCH UNCH
3500 3600 3700			0.13/ "0.13	0.13/ "0.13		0.15 - 0.01 0.17 - 0.02 0.20 - 0.03	.0197				200 1983	UNCH
3750 3800						0.22 - 0.03 0.24 - 0.03	.0252				1000 9149	UNCH
3900 3950			/*0.31A /*0.34A	/*0.31A /*0.34A		0.28 - 0.04 0.31 - 0.04	.0316				401 3	UNCH
4000 4100			/*0.36A /*0.41A	/*0.36A /*0.41A		0.33 - 0.05 0.39 - 0.05	.0368 .0428		175		19459 1909	UNCH UNCH
4200 4250			/0.48A /*0.51A	/0.48A /*0.51A		0.45 - 0.06 0.48 - 0.07	.0490				4901 510	UNCH
4300 4400	0.53	0.53	0.53/*0.50 /*0.64A	0.53/*0.50 /*0.64A		0.52 - 0.08 0.61 - 0.08	.0559		2001		4270 + 1668	1991 UNCH
4500 4550	0.77 	0.77 	0.79/*0.74A /*0.79A /*0.85A	0.79/*0.74A /*0.79A /*0.85A		$ \begin{array}{rrrrr} 0.71 & - & 0.09 \\ 0.76 & - & 0.09 \\ 0.82 & - & 0.10 \end{array} $.0736 .0782 .0835		180 		20843 1 558	UNCH UNCH UNCH
4600 4700 4750			/*0.83A /*0.98A /*1.05A /*1.12A	/*0.83A /*0.98A /*1.05A		0.82 - 0.10 0.95 - 0.10 1.02 - 0.11	.0947				300 450	UNCH
4800 5000			/*1.12A /*1.45A	/*1.12A /*1.45A		1.09 - 0.11 1.42 - 0.13	.1066		200	 150	3500 20884 +	UNCH 100
5050 5100			/*1.54A /*1.63A	/*1.54A /*1.63A		1.52 - 0.13 1.61 - 0.14	.1410 .1482				400 400	UNCH UNCH
5200 5250			1.97B/*1.83A 2.08B/*1.94A	1.97B/*1.83A 2.08B/*1.94A		1.82 - 0.13 1.93 - 0.13	.1639 .1720				2650 600	UNCH UNCH
5300 5350			2.20B/*2.04A 2.31B/*2.16A	2.20B/*2.04A 2.31B/*2.16A		2.04 - 0.14 2.15 - 0.14	.1802				1351 213	UNCH
5400 5500			2.43B/*2.27A 2.69B/*2.51A 2.97B/*2.77A	2.43B/*2.27A 2.69B/*2.51A 2.97B/*2.77A		2.27 - 0.14 2.52 - 0.15 2.78 - 0.16	.1972 .2150 .2335			600	656 17293 + 272	UNCH 600 UNCH
5600 5650 5700			3.10B/*2.77A 3.10B/*2.90A 3.25B/*3.04A	3.10B/*2.90A 3.25B/*3.04A		2.78 - 0.16 2.92 - 0.17 3.06 - 0.17	.2432				89 3900	UNCH UNCH UNCH
5750 5800			3.40B/3.17A 3.56B/*3.32A	3.40B/3.17A 3.56B/*3.32A		3.21 - 0.18 3.36 - 0.19	.2629				641 453	UNCH
5850 5900			/*3.47A /*3.62A	/*3.47A /*3.62A		3.51 - 0.20 3.67 - 0.21	.2834 .2939				70 10	UNCH UNCH
6000 6050	4.16	4.16	4.23B/3.95 /4.11A	4.23B/3.95 /4.11A		4.00 - 0.22 4.17 - 0.23	.3156 .3267		201	100	11798 + 1	149 UNCH
6100 6150			4.58B/4.28A 4.77B/4.46A	4.58B/4.28A 4.77B/4.46A		4.35 - 0.22 4.53 - 0.23	.3380 .3495				60 75	UNCH UNCH
6200 6250			4.96B/4.64A 5.17B/4.83A	4.96B/4.64A 5.17B/4.83A		4.71 - 0.24 4.90 - 0.24	.3612 .3730				496 32	UNCH UNCH
6300 6350	 6 20	 6 20	5.37B/*5.02A 5.58B/*5.22A	5.37B/*5.02A 5.58B/*5.22A		5.10 - 0.24 5.30 - 0.25	.3851		 		978 264	UNCH UNCH
6500 6600	6.20 6.23	6.20 6.23	6.27B/5.85A 6.74B/*6.23 6.99B/*6.54A	6.27B/5.85A 6.74B/*6.23 6.99B/*6.54A		5.93 - 0.29 6.39 - 0.31 6.63 - 0.32	.4350 .4608 .4738		1 5 		4494 - 208 10	1 UNCH UNCH
6650 6700 6750			7.26B/6.78A 7.51B/7.03A	6.99B/*6.54A 7.26B/6.78A 7.51B/7.03A		6.88 - 0.32 7.13 - 0.34	.4868				116 3	UNCH UNCH
6800 6850			/./9B//.28A	7.79B/7.28A 8.07B/7.54A		7.13 - 0.34 7.39 - 0.35 7.66 - 0.36	.5132				1 3	UNCH
6900 7000	7.75	7.75	8.07B/7.54A #8.11B/*7.75 8.96B/8.37A	#8.11B/*7.75 8.96B/8.37A		7.93 NEW 8.50 - 0.40	.5394 .5657		5		5 + 5	5 UNCH
7050 7100			9.28B/8.66A 9.59B/8.96A	9.28B/8.66A 9.59B/8.96A		8.80 - 0.41 9.10 - 0.43	.5786 .5915				1 1	UNCH UNCH
7150 7250			9.92B/9.27A 10.59B/9.90A	9.92B/9.27A 10.59B/9.90A		9.42 - 0.43 10.06 - 0.46	.6042 .6295				7 2	UNCH UNCH
7300 7500			10.94B/10.23A 12.39B/*11.60	10.94B/10.23A 12.39B/*11.60		10.39 - 0.48 11.79 - 0.52	.6418 .6890		 2770		2 1 149980 -	UNCH UNCH
TOTAL									2770	850	149980 +	2844
THE IN	FORMATIO	N CONTAINED IN	THIS REPORT IS COM	IPILED FOR THE CON	VENIENCE OF THE	USER AND IS FURNISHED V	VITHOUT RESPONS	IBILITY F	OR ACCURA	CY OR CO	NTENT. IT I	IS





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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.I & PT.0			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
LO PUT	г	NYMEX CRUDE O	OIL OPTIONS (PHY)								VOLUME				
JUL19 5000						1.68	- C	0.10	.1469					101	UNCH
TOTAL AUG19														101	
3500								0.01 0.06	.0241					150 150	UNCH UNCH
4500 TOTAL						1.03	- (0.00	.0937					300	UNCH
SEP19 2500						0.05		UNCH	.0053					200	UNCH
3500						0.27	- C	0.01 0.01	.0273					500 1201	UNCH
4000 4500						1.19	- 0	0.04	.1026					4051	UNCH
5000 5200						2.62	- C	0.06 0.06	.1680 .1989				700	4100 + 950	300 UNCH
5500 5700						4.03	- C	0.09 0.12	.2494 .2861				1350	4750 + 300	400 UNCH
5800 6000	5.23	5.23	5.23/*5.23	5.23/*5.23				NEW 0.19	.3053 .3461			1	300	300 + 2752 +	300 1
6200 6400								0.19 0.20	.3894 .4350				600	1100 + 300	600 UNCH
6500 TOTAL						7.15	- 0	0.21	.4584			 1	2950	700 21204 +	UNCH 1601
DEC19															
1500 1550						$0.01 \\ 0.01$		UNCH UNCH	.0007 .0009					3 1	UNCH UNCH
2000 2200								0.01 0.01	.0021					232 400	UNCH UNCH
2300 2500							- 0	0.02	.0042					300 224	UNCH
2600	0.16	0.16	0.16/0.16	0.16/0.16		0.08	- 0	0.01 0.02	.0081			 1		400 3678	UNCH
3000 3200						0.24	- 0	0.02 0.01	.0230					850 600	UNCH
3300 3400						0.34	- 0	0.01	.0316					1	UNCH
3500 3600	0.38	0.38	0.38/*0.38	0.38/*0.38		0.47	- 0	0.01 0.01	.0366			1		12267 800	UNCH
3700 3800	0.62	0.62	0.62/0.60	0.62/0.60		0.64	- 0	0.01 0.01	.0487			$\begin{smallmatrix} & 1\\1000\end{smallmatrix}$		1036 1109 +	UNCH 994
3900 4000	0.90	0.90	0.90/0.90	0.90/0.90		0.85	- 0	0.02 0.02	.0632 .0714			2	550	8 10156 -	UNCH 238
4200 4300	1.17	1.17	1.17/1.17	1.17/1.17		1.12 1.28	- 0	0.03 0.02	.0904 .1011					1319 + 447	3 UNCH
4400 4500						1.44 1.62		0.04 0.05	.1119				700	611 11972 +	UNCH 600
4550 4600						1.72 1.82		0.04 0.05	.1299 .1362					45 744	UNCH UNCH
4700 4750	1.98	1.98	2.00B/1.98 	2.00B/1.98 		2.03 2.14		0.05 0.05	.1491 .1558			50 		1137 126	UNCH UNCH
4800 4850	2.15	2.15	2.30/2.15	2.30/2.15		2.25	- 0	0.06	.1626 .1697			51 		740 + 100	49 UNCH
4900 4950	2.41	2.41	2.47B/2.41 /2.67A	2.47B/2.41 /2.67A			- 0	0.06 0.06	.1768			50 		355 + 147	50 UNCH
5000	2.70	2.70	2.72B/2.70 /2.92A	2.72B/2.70 /2.92A		2.74	- 0	0.07 0.06	.1914			10	1150	17273 + 2027	84 UNCH
5050 5100			/3.05A /3.32A	/3.05A /3.32A		3.01	- 0	0.00 0.07 0.08	.2067			2000		1992 6175 +	UNCH
5200 5300			/3.60A	/3.60A		3.56	- 0	0.10	.2222					1797	1951 UNCH
5350 5400			/3.74A /3.89A	/3.74A /3.89A		3.85	- 0	0.11 0.11	.2463 .2547					280 220	UNCH
5450 5500			/4.04A /4.20A	/4.04A /4.20A		4.15	- C	0.12 0.12	.2632 .2718					205 13437	UNCH UNCH
5550 5600			/4.36A /4.52A	/4.36A /4.52A		4.31 4.47		0.13 0.13	.2806 .2895					325 1708	UNCH UNCH
5650 5700			/4.68A /4.85A	/4.68A /4.85A				0.13 0.14	.2986 .3077					101 370	UNCH UNCH
5750 5800			/5.02A /5.20A	/5.02A /5.20A				0.15 0.15	.3170 .3265					107 351	UNCH UNCH
5850 5900			/*5.38A /5.56A	/*5.38A /5.56A		5.33 5.51		0.15 0.16	.3361 .3459					23 747	UNCH UNCH
5950 6000	6.02	6.02	/5.75A 6.02/5.94A	/5.75A 6.02/5.94A			- C	0.17 0.17	.3558			10	450	60 7170 -	UNCH 455
6100 6150			/6.33A /6.53A	/6.33A /6.53A		6.30 6.50	- 0	0.18 0.19	.3863					50 10	UNCH
6200 6250			/6.73A /6.94A	/6.73A /6.94A		6.72 6.93	- 0	0.18 0.19	.4073			1000		2123 +	1000 UNCH
6300			/7.16A /7.38A	/7.16A /7.38A		7.16 7.39	- 0	0.19 0.19	.4287					15 1	UNCH
6350 6400			/7.60A 8.30B/8.08A	/7.60A 8.30B/8.08A		7.62	- 0	0.19 0.19 0.19	.4505					250 11	UNCH
6500 6600			8.82B/8.57A 9.36B/9.08A	8.82B/8.57A 9.36B/9.08A		8.61	- 0	0.18 0.18	.4945					77 2	UNCH
6700 6800			9.92B/9.64A	9.92B/9.64A		9.13 9.68	- 0	0.19	.5167					2	UNCH
7000 7150			11.14B/10.77A 12.10B/11.72A	11.14B/10.77A 12.10B/11.72A		10.85 11.79	- 0	0.21	.5828					204 5	UNCH
7300 8000			13.14B/12.69A 18.59B/17.90A	13.14B/12.69A 18.59B/17.90A				0.29 0.43	.6464 .7680					2 5	UNCH
TOTAL												4179	2850	106940 +	4038
JAN20 6000						6.09	- 0	0.18	.3725					1	UNCH
TOTAL JUN20														1	
4000						1.26		0.04	.0942					600	UNCH
4500 4800						2.94	- C	0.06 0.09	.1519					200 200	UNCH
5000 5300						4.40	- C	0.11 0.12	.2222					200 22	UNCH
5500 5600		====				5.41	- C	0.15 0.15	.3046					10 978	UNCH
6000 TOTAL	7.15	7.15	7.15/7.15	7.15/7.15		6.98	- 0	0.17	.3996			1 1		4 + 2214 +	1 1
DEC20															
2000 3000						0.05 0.41	ι	UNCH UNCH	.0048 .0335					21 1163	UNCH UNCH
3500 3750						0.88 1.23		UNCH UNCH	.0660 .0879					2550 500	UNCH UNCH
3800 4000						1.31 1.66	ι	UNCH 0.01	.0928					350 1750	UNCH
4300 4500						2.28 2.76	- C	0.02	.1483					151 5722	UNCH
4800 5000						3.56 4.16	- C	0.02	.2159					500 5395	UNCH
5200						4.80 5.14	- C	0.02 0.02 0.02	.2780					1 1100	UNCH
5300 5400						5.49	- 0	0.02 0.03 0.03	.3118					251 570	UNCH
5500 5700						5.86 6.64	- 0	0.04	.3294					20	UNCH
5800 5900						7.06 7.49	- 0	0.03 0.04	.3848					200 616	UNCH
7000 TOTAL						13.51	- 0	0.11	.6198					600 21460	UNCH
DEC21 3250						1.07	+ ^	0.01	.0713					2000	UNCH
THE IN	NFORMATIO	N CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE U	JSER AND IS F	URNIS	SHED W	ITHOUT F	RESPONSI	BILITY FO	OR ACCURA			
ACCEPT	ED BY TH	IE USER ON THE CO	ONDITION THAT ERRO	KS OR OMISSIONS S	HALL NOT BE MADE	THE BASIS FOR	R ANY	Y CLAI	M, DEMAN	יט, OR C	AUSE FOR	ACTION.			





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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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PRICE INDICATOR KEY

R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION ADD NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	E.										
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE				DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
LO PUT DEC21	-	NYMEX CRUDE	OIL OPTIONS (PHY)								VOLUME				
4500 5000						3.76 5.33	+	NEV 0.01					400	400 + 100	400 UNCH
5500 7000						7.21 15.61		NEV 0.01	.6336				400	400 + 25	400 UNCH
8100 TOTAL						24.15	-	0.05	.7789				800	100 3025 +	UNCH 800
DEC22 3150 TOTAL						1.35	+	0.01	.0812					1000 1000	UNCH
DEC23 3050						1.60	+	0.02	.0879					1000 1000	UNCH
TOTAL														1000	
OH CAL			G OIL (PHY) OPTIONS			0.6100			. 1 0000					0	
15100 16600						0.6190 0.4690		UNCH						0	UNCH
16700 17000						0.4590 0.4290		UNCH	1.0000					0	UNCH
17200 18000						0.4090 0.3290		UNCH	1.0000					0	UNCH
18500 18700						0.2790 0.2590		UNCH	1.0000					0	UNCH
18900 19000						0.2390 0.2290		UNCH	1.0000					0 0	UNCH UNCH
19600 19700						0.1690 0.1590		UNCH	1.0000					0	UNCH UNCH
19800 19900						0.1490 0.1390		UNCH	1.0000 1.0000					0 0	UNCH UNCH
20000 20200						0.1290 0.1090		UNCH	1.0000 1.0000					0 0	UNCH UNCH
20400 20500						0.0890 0.0790		UNCH	1.0000					0	UNCH
20600 20700						0.0690 0.0590		UNCH	1.0000					0	UNCH
20800						0.0490 0.0390		UNCH	1.0000					0	UNCH
20900 21000						0.0290 0.0190		UNCH	1.0000					0	UNCH
21100						0.0090 0.0000		UNCH	1.0000					0	UNCH
21500 TOTAL						0.0000		UNCF	1 1.0000					0	UNCH
AUG18						0 5006		0 0471	.9998					1	UNCU
16700 17000						0.5096 0.4796	+ (0.0471	.9995					1	UNCH
17400 18700						0.4396 0.3107	+ (0.0471 0.0463	.9810					50 2	UNCH
18900 19500						0.2912 0.2343	+ (0.0459 0.0445	.9372					3 1	UNCH UNCH
19600 19700						0.2250 0.2159	+ (0.0443 0.0441	.9210					1 202	UNCH UNCH
19800 19900						0.2068 0.1978		0.0440 0.0438						1 100	UNCH UNCH
20000 20100						0.1889 0.1800		0.0436 0.0432						75 1	UNCH UNCH
20200 20400						0.1711 0.1537	+ (0.0426 0.0415	.8650					1 53	UNCH UNCH
20500 20700						0.1452 0.1286	+ (0.0407	.8215					100 11	UNCH
20900 21000			 0.0900B/	 0.0900B/		0.1128 0.1052	+ (0.0361 0.0347	.7477					51	UNCH
21100 21200			0.0800B/ 0.0900B/	0.0800B/ 0.0900B/		0.0980 0.0911	+ (0.0333	.7023					6 101	UNCH
21300			#0.0900B/ #0.0800B/	#0.0900B/ #0.0800B/		0.0845 0.0782	+ (0.0305 0.0291	.6514					1 50	UNCH
21400 21500		0.0500	0.0800B/ 0.0700B/0.050	0.0800B/		0.0722		0.0277	.5970					326	UNCH
21600 21700	0.0500	0.0500	#0.0600B/0.050	0.0700B/0.050 #0.0600B/0.050		0.0665 0.0611		NEV 0.0248	.5402			2		2 + 102 +	2
21800 21900			#0.0600B/ 0.0500B/	#0.0600B/ 0.0500B/		0.0560 0.0512	+ (0.0233 0.0219	.4827					51 102	UNCH
22000 22100			0.0500B/ 0.0400B/	0.0500B/ 0.0400B/		0.0467 0.0425	+ (0.0205 0.0191	.4258			1 		627 22	UNCH UNCH
22300 22400			0.0400B/ 0.0300B/	0.0400B/ 0.0300B/		0.0350 0.0316	+ (0.0166 0.0153	.3445			5		1 5	UNCH UNCH
22500 22600			0.0300B/ 0.0300B/	0.0300B/ 0.0300B/		0.0285 0.0256	+ (0.0141 0.0130	.2944					260 300	UNCH UNCH
23000 23200	0.0100 0.0200	0.0100 0.0200	0.0200/*0.0100 #0.0200/*0.020	0.0200/*0.010 #0.0200/*0.020		0.0163 0.0128	+ (0.0090 NEV				23 1		290 - 1 +	1 1
23500 23600			0.0100B/	0.0100B/		0.0087 0.0077		0.0052 0.0047						52 50	UNCH
23800 24000			0.0100B/	0.0100B/		0.0059 0.0044	+ (0.0037 0.0028	.0883					201 575	UNCH UNCH
24200 24300						0.0033	+ (0.0022	.0532					50 50	UNCH
24500						0.0022						34		50 3931 +	UNCH 4
TOTAL SEP18												٠.			•
16000 16800						0.5851 0.5057								100 2	UNCH UNCH
17200 17500						0.4663 0.4370	+ (0.0453	.9869					1 3	UNCH
17900 18000						0.3982 0.3886	+ (.9693					1 75	UNCH
18300						0.3600 0.3505	+ (0.0445	.9538					100 400	UNCH
18400 18500						0.3411	+ (0.0443	.9404					226	UNCH
18600 18700						0.3317 0.3224	+ (.9300					100 301	UNCH
18800 18900						0.3131 0.3039	+ (0.0438	.9182					140 52	UNCH
19000 19200						0.2947 0.2766	+ (0.0434 0.0430	.8975					544 45	UNCH UNCH
19300 19500						0.2676 0.2500	+ (0.0427 0.0423	.8758					35 400	UNCH UNCH
19600 19700						0.2413 0.2327	+ (0.0420 0.0417	.8638					75 152	UNCH
19800 19900						0.2242 0.2158	+ (0.0414	.8441					141 85	UNCH
20000						0.2075 0.1993	+ (0.0406	.8218					1104 230	UNCH
20100						0.1913	+ (0.0397	7 .7975					400	UNCH
20300 20400						0.1833 0.1755	+ (0.0383	.7710					200 105	UNCH
20500 20600						0.1679 0.1604	+ (0.0368	.7421					126 141	UNCH
20700 20800			#0.1200B/	#0.1200B/		0.1531 0.1460	+ (0.0350	.7105					80 20	UNCH
20900 21000			#0.1100B/ 0.1000B/	#0.1100B/ 0.1000B/		0.1392 0.1326	+ (0.0336	.6766					9 1047	UNCH UNCH
21100 21200			0.1000B/ #0.1100B/	0.1000B/ #0.1100B/		0.1261 0.1199	+ (0.0332 0.0328	.6591					105 322	UNCH UNCH
	FORMATTO	N CONTAINED IN	THIS REPORT IS COM							DECROUGE	DTLTTV F				

THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.

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FINAL

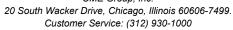
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EX DELTA CI	KER OPEN ISES OUTCRY VOLUME		OPEN INTEREST
OH CALL	NYMEX HEATING	G OIL (PHY) OPTIONS	5				VOLUME		
SEP18 21300 21400 21500 21600 21700 21900 22100 22100 22200 0.0500 22300 22400 22500 22500 22500 22800 23800	0.0500	#0.1100B/ #0.1100B/ #0.1000B/ 0.1000B/ 0.0900B/ 0.0900B/ 0.0800B/ #0.0700B/0.05 #0.0700B/0.05 #0.0600B/ #0.0500B/ #0.0500B/ #0.0500B/	#0.1100B/ #0.1100B/ #0.1000B/ 0.1000B/ 0.0900B/ 0.0900B/ 0.0800B/ #0.0700B/ #0.0700B/ #0.0700B/ #0.0600B/ #0.0500B/ #0.0500B/ #0.0500B/	 	0.1138 + 0.0318 0.1079 + 0.0308 0.1023 + 0.0299 0.0968 + 0.0289 0.0915 + 0.0269 0.0864 + 0.0269 0.0816 + 0.0259 0.0769 + 0.0249 0.0724 + 0.0239 0.0681 + 0.0229 0.0660 + 0.0219 0.0660 + 0.0219 0.0564 + 0.0200 0.0554 + 0.0200 0.0495 + 0.0181 0.0463 + 0.0172 0.0403 + 0.0154	.604458575857566854785287490647164528434141573662345136623451		2 1 1 50	83 UNCH 117 UNCH 130 UNCH 48 UNCH 150 UNCH 110 UNCH 88 UNCH 315 UNCH 20 UNCH 122 UNCH 2 UNCH 5 UNCH 202 UNCH 5 UNCH 202 UNCH 202 UNCH 203 UNCH 204 UNCH 205 UNCH 207 UNCH 208 UNCH 209 UNCH 200 UNCH 200 UNCH 200 UNCH 200 UNCH 200 UNCH
23500 0.0300 24000 24500 25000 TOTAL 0CT18	0.0300 	0.0300/*0.0300 	0.0300/*0.0300 	====	0.0280 + 0.0113 0.0191 + 0.0081 0.0127 + 0.0056 0.0082 + 0.0037 0.0052 + 0.0024	.2363 - .1742 - .1245 - .0861 - .0580 -		30 33 50	475 - 1 689 UNCH 50 UNCH 350 UNCH 475 UNCH 11196 - 1
16900 17400 17400 17800 18100 18300 18700 19200 19500 19600 20000 20000 211000 21400 21500 21800 23500 24000 TOTAL NOV18					0.5015 + 0.0437 0.4532 + 0.0434 0.4151 + 0.0429 0.3870 + 0.0425 0.3686 + 0.0423 0.3503 + 0.0419 0.3323 + 0.0416 0.2627 + 0.0397 0.2544 + 0.0394 0.2461 + 0.0399 0.2219 + 0.0379 0.1766 + 0.0346 0.1559 + 0.0325 0.1493 + 0.0217 0.1249 + 0.0287 0.1192 + 0.0278 0.1033 + 0.0253 0.0937 NEGO	.974395462935391849110873984808383796972296805366536038539253922851		2	1 UNCH 2 UNCH 100 UNCH 1 UNCH 1 UNCH 1 UNCH 1 UNCH 2 UNCH 2 UNCH 2 UNCH 175 UNCH 175 UNCH 175 UNCH 175 UNCH 1 UNCH 226 UNCH 21 UNCH 21 UNCH 21 UNCH 3 UNCH 21 UNCH 25 UNCH 3 UNCH 26 UNCH 3 UNCH 27 UNCH 27 UNCH 28 UNCH 27 UNCH 27 UNCH 27 UNCH 28 UNCH 27 UNCH 27 UNCH 27 UNCH 27 UNCH 28 UNCH 28 UNCH 29 UNCH 20 UNCH 20 UNCH 20 UNCH 20 UNCH 21 UNCH 21 UNCH 22 UNCH 24 UNCH 25 UNCH 26 UNCH 27 UNCH 27 UNCH 27 UNCH 27 UNCH 28 UNCH 28 UNCH 27 UN
18500 18700 18900 18900 19400 19500 19700 20100 21100 21100 21300 21400 21500 21400 21500 21600 21700 21900 21900 21900 22000 22000 22700 23200 23200 23200 23200					0.3626 + 0.0417 0.3447 + 0.0415 0.3269 + 0.0410 0.3181 + 0.0408 0.2836 + 0.0392 0.2752 + 0.0388 0.2670 + 0.0386 0.2589 + 0.0376 0.2276 + 0.0359 0.1985 + 0.0334 0.1559 + 0.0334 0.1559 + 0.0231 0.1599 + 0.0293 0.1540 + 0.0284 0.1483 + 0.0267 0.1376 + 0.0256 0.1277 + 0.0250 0.1277 + 0.0250 0.1230 + 0.0245 0.1184 + 0.0245 0.1184 + 0.0245 0.1184 + 0.0245 0.1184 + 0.0238 0.1593 + 0.0245 0.1184 + 0.0238 0.1593 + 0.0245 0.1184 + 0.0293 0.1139 + 0.0223 0.1590 + 0.0245 0.1033 + 0.0222 0.0934 + 0.0205 0.0860 + 0.0193 0.0759 + 0.0166	.8849826983648281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281828182818281		2	1 UNCH 2 UNCH 3 UNCH 42 UNCH 2 UNCH 2 UNCH 2 UNCH 3 UNCH 5 UNCH 1 UNCH 1 UNCH 2 UNCH 2 UNCH 2 UNCH 2 UNCH 2 UNCH 1 UNCH 2 UNCH 1 UNCH 1 UNCH 2 UNCH 1 UNCH
DEC18 18300 18400 18500 18600 18700 18800 19300 19500 19700 20000 20100 21100 21100 21200 21300 21400 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 22500 23300 23300 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500 23500					0.3901 + 0.0405 0.3814 + 0.0403 0.3728 + 0.0401 0.3643 + 0.0399 0.3559 + 0.0398 0.3475 + 0.0398 0.3475 + 0.0389 0.3529 + 0.0389 0.3069 + 0.0384 0.2990 + 0.0381 0.2912 + 0.0373 0.2685 + 0.0376 0.2760 + 0.0373 0.2685 + 0.0370 0.2611 + 0.0366 0.2538 + 0.0360 0.1998 + 0.0333 0.1936 + 0.0329 0.1875 + 0.0325 0.1815 + 0.0325 0.1815 + 0.0320 0.1757 + 0.0316 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0301 0.1588 + 0.0299 0.1107 + 0.0291 0.1420 + 0.0291 0.1430 + 0.0259 0.1107 + 0.0263 0.1194 + 0.0259 0.1107 + 0.0246 0.1065 + 0.0239 0.10024 + 0.0224 0.0912 + 0.02214 0.0812 + 0.0220 0.0751 + 0.0191 0.0722 + 0.0186 0.0641 + 0.0173 0.0616 + 0.0169 0.0545 + 0.0156 0.0523 + 0.0152 0.0406 + 0.0124 0.0327 + 0.0101 0.0262 + 0.0081	.8802 .8743 - .8678 - .8613 - .8613 - .8122 - .8169 - .8122 - .7737 - .76548 - .7468 - .7468 - .6600 - .6406 - .6372 - .62140 - .6023 - .5786 - .5786 - .5786 - .5788 - .57		2 100	100 UNCH 200 UNCH 100 UNCH 51 UNCH 51 UNCH 300 UNCH 209 UNCH 200 UNCH 201 UNCH 301 UNCH 301 UNCH 133 UNCH 100 UNCH 12 UNCH 134 UNCH 20 UNCH 20 UNCH 20 UNCH 100 UNCH 20 UNCH 21 UNCH 22 UNCH 22 UNCH 23 UNCH 24 UNCH 25 UNCH 26 UNCH 278 UNCH 2804 UNCH 29 UNCH 18 UNCH 2804 UNCH 18 UNCH 29 UNCH 18 UNCH 20 UNCH 18 UNCH 20 UNCH 21 UNCH 22 UNCH 23 UNCH 24 UNCH 256 + 100 255 UNCH 256 + 100 25 UNCH 21 UNCH 256 + 100 25 UNCH 21 UNCH 21 UNCH 22 UNCH 23 UNCH 24 UNCH 256 + 100 25 UNCH 26 UNCH 278 UNCH 280 UNCH 29 UNCH 29 UNCH 20 UNCH 20 UNCH 21 UNCH 25 UNCH 26 UNCH 278 UNCH 280 UNCH 29 UNCH 29 UNCH 20 UNCH 20 UNCH 20 UNCH 20 UNCH 21 UNCH 22 UNCH 23 UNCH 24 UNCH 25 UNCH 26 UNCH 278 UNCH 278 UNCH 280 UNCH 29 UNCH 29 UNCH 20 U

ENERGY OPTIONS

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin







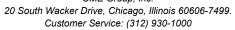


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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	S SETTLEMENT PRI OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		(Inter	OPEN REST
OH CAL	L	NYMEX HEATING	G OIL (PHY) OPTI	CONS					VOLUME				
DEC18 27000 27500						0.0165 + 0.0054 0.0130 + 0.0044	.1064					40 450	UNCH UNCH
28000 30000						0.0102 + 0.0036 0.0037 + 0.0016	.0704 .0288					53 53	UNCH UNCH
TOTAL JAN19										3	190	5928 +	153
18500 18700						0.3854 + 0.0381 0.3685 + 0.0376	.8618 .8442					1 1	UNCH
18900 19000						0.3518 + 0.0371 0.3436 + 0.0369	.8363 .8248					3 2	UNCH
19200 19400						0.3275 + 0.0365 0.3117 + 0.0360	.8147 .7994					4 2	UNCH
19500 19600						0.3039 + 0.0357 0.2962 + 0.0354	.7882					1 8	UNCH
19700 19800						0.2886 + 0.0350 0.2810 + 0.0345	.7749 .7664					1 6 3	UNCH
19900 20000						0.2736 + 0.0340 0.2663 + 0.0336 0.2592 + 0.0332	.7576 .7486 .7374					3 9 1	UNCH
20100						0.2125 + 0.0301 0.2064 + 0.0297	.6696 .6590					9	UNCH UNCH UNCH
20900 21000 21100						0.2003 + 0.0292 0.1944 + 0.0288	.6480					11 5	UNCH
21200 21300						0.1885 + 0.0283 0.1828 + 0.0278	.6266					3 4	UNCH
21400 21500						0.1772 + 0.0273 0.1718 + 0.0269	.6049					2	UNCH
21600 21700						0.1664 + 0.0264 0.1612 + 0.0259	.5831					3 1	UNCH
21800 21900						0.1561 + 0.0254 0.1511 + 0.0249	.5609 .5498					9 7	UNCH
22000 22100						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.5387 .5276					8 3	UNCH UNCH
22200 22400						0.1369 + 0.0235 0.1279 + 0.0225	.5166 .4945					6 1	UNCH UNCH
22500 22700						$\begin{array}{cccc} 0.1237 & + & 0.0221 \\ 0.1154 & + & 0.0210 \end{array}$.4836 .4619					17 2	UNCH UNCH
22800 22900						0.1115 + 0.0205 0.1076 + 0.0199	.4512					6 <u>1</u>	UNCH
23000 23800						0.1039 + 0.0194 0.0783 + 0.0158	.4299					7 25	UNCH
23900 24100						0.0755 + 0.0154 0.0702 + 0.0146	.3411 .3230					1 1 188	UNCH
TOTAL FEB19												100	
18800 18900						0.3618 + 0.0350 0.3538 + 0.0347	.8360 .8289					2	UNCH UNCH
19000 19100						0.3460 + 0.0344 0.3382 + 0.0341	.8165 .8139					1 1	UNCH
19200 19400						0.3306 + 0.0339 0.3155 + 0.0333	.8017 .7900					4 2	UNCH
19500 19600						0.3081 + 0.0330 0.3008 + 0.0327	.7783 .7733					1 8	UNCH UNCH
19700 19800						0.2936 + 0.0324 0.2866 + 0.0321	.7647 .7558					1 7	UNCH UNCH
19900 20000						0.2796 + 0.0318 0.2727 + 0.0314	.7446 .7358					2 9	UNCH UNCH
20200 20600						0.2592 + 0.0307 0.2335 + 0.0292	.7178 .6802					1	UNCH
20800 20900						0.2213 + 0.0283 0.2154 + 0.0279	.6608 .6516					9 7	UNCH
21000 21100						0.2096 + 0.0275 0.2039 + 0.0271	.6411					14 3	UNCH
21200 21300						0.1984 + 0.0268 0.1929 + 0.0264	.6213					4 5	UNCH
21400 21500						0.1875 + 0.0259 0.1823 + 0.0256	.6008					5 4	UNCH
21600 21700						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.5805 .5702 .5600					1 2 10	UNCH UNCH UNCH
21800 21900 22000						0.1623 + 0.0239 0.1576 + 0.0235	.5498					6 201	UNCH
22100 22100 22200						0.1530 + 0.0232 0.1485 + 0.0228	.5294					3 30	UNCH
22300 22500						0.1440 + 0.0223 0.1355 + 0.0215	.5091					1 5	UNCH
22700 22800						0.1273 + 0.0206 0.1234 + 0.0203	.4690 .4592					1 5	UNCH
23000 23400						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.4396 .4017					7 1	UNCH UNCH
23800 24000						0.0892 + 0.0163 0.0834 + 0.0156	.3653 .3478					1 50	UNCH UNCH
25000 28000						$ \begin{array}{rrrr} 0.0591 & + 0.0121 \\ 0.0192 & + 0.0050 \end{array} $.2681 .1074					150 16	UNCH UNCH
TOTAL MAR19												584	
18800 18900						0.3632 + 0.0334 0.3555 + 0.0332	.8126 .8056					1 3	UNCH
19200 19300						0.3331 + 0.0325 0.3257 + 0.0322	.7838					4 1	UNCH
19400 19600						0.3185 + 0.0320 0.3043 + 0.0315	.7720 .7557					3 8	UNCH
19700 19800						0.2974 + 0.0313 0.2905 + 0.0309	.7473 .7389					2 5	UNCH UNCH
19900 20000						0.2837 + 0.0306 0.2770 + 0.0303	.7304 .7198					2	UNCH UNCH
20400 20700						0.2512 + 0.0291 0.2329 + 0.0281	.6862					1 1	UNCH
20800 20900						0.2270 + 0.0278 0.2212 + 0.0274	.6487 .6399					11 6	UNCH UNCH
21000 21100						0.2155 + 0.0271 0.2099 + 0.0267	.6304 .6207					11 2	UNCH
21200 21300						0.2044 + 0.0264 0.1990 + 0.0260	.6114					3	UNCH
21400 21500						0.1937 + 0.0256 0.1885 + 0.0252	.5922					4 2 3	UNCH
21700 21800						0.1784 + 0.0244 0.1735 + 0.0240 0.1688 + 0.0237	.5635 .5539 .5443					29 8	UNCH UNCH UNCH
21900 22000						0.1688 + 0.0237 0.1641 + 0.0232 0.1596 + 0.0229	.5443 .5347 .5251					8 1	UNCH UNCH UNCH
22100 22200 22400						0.1596 + 0.0229 0.1551 + 0.0225 0.1465 + 0.0218	.5251					5 1	UNCH UNCH UNCH
22400 22500 22600						0.1463 + 0.0218 0.1423 + 0.0214 0.1382 + 0.0210	.4872					5 1	UNCH
22700 22800						0.1342 + 0.0216 0.1342 + 0.0206 0.1304 + 0.0203	.4685					1 6	UNCH
23000 23400						0.1228 + 0.0195 0.1089 + 0.0181	.4410					10 5	UNCH
23500 24000						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.3966 .3544					1 50	UNCH UNCH
24300 25000						$\begin{array}{cccc} 0.0821 & + & 0.0149 \\ 0.0655 & + & 0.0127 \end{array}$.3304 .2784					1 315	UNCH UNCH
THE THE	FORMATTO	ON CONTAINED IN	TUTO DEDODE TO									ONTENT. IT	

CME Group, Inc.







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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE NO	DMINAL	PRICE IS THE F	PREVIOUS DAY'S S	SETTLEMENT PRIC	Ε.								
•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN REST
OH CALI	L	NYMEX HEATING	OIL (PHY) OPTIONS	5					V020.12			531	
APR19 18800						0.3590 + 0.0320	.7991					1	UNCH
18900						0.3517 + 0.0318	.7916					3 5	UNCH
19200 19400						0.3301 + 0.0310 0.3162 + 0.0305	.7689 .7531					1	UNCH
19600 19900						0.3027 + 0.0301 0.2830 + 0.0292	.7369 .7120					8 2	UNCH
20000 20400						0.2766 + 0.0289 0.2520 + 0.0277	.7020 .6690					7 1	UNCH UNCH
20600 20700						0.2403 + 0.0271 0.2346 + 0.0268	.6508 .6420					2 1	UNCH UNCH
20800 20900						0.2290 + 0.0265 0.2235 + 0.0262	.6336 .6246					10 6	UNCH UNCH
21000 21100						0.2180 + 0.0258 0.2127 + 0.0255	.6157 .6067					8 3	UNCH UNCH
21200 21300						0.2075 + 0.0252 0.2023 + 0.0248	.5977 .5887					2	UNCH UNCH
21500 21600						0.1923 + 0.0242 0.1875 + 0.0239	.5706 .5616					2 4	UNCH
21700						0.1827 + 0.0236 0.1780 + 0.0232	.5526					3 10	UNCH
21800 21900						0.1734 + 0.0229	.5346					2	UNCH
22000 22100						0.1689 + 0.0226 0.1645 + 0.0223	.5256 .5167					8 1	UNCH
22200 22300						0.1601 + 0.0219 0.1559 + 0.0216	.5078 .4989					5 1	UNCH UNCH
22500 22600						0.1476 + 0.0208 0.1436 + 0.0204	.4813 .4725					33 1	UNCH UNCH
22700 22800						0.1397 + 0.0201 0.1359 + 0.0197	.4638 .4552					1 5	UNCH UNCH
23000 23900						0.1286 + 0.0190 0.0996 + 0.0161	.4382 .3653					7 1	UNCH UNCH
24000						0.0967 + 0.0158 0.0886 + 0.0148	.3575					27 1	UNCH
24300 24500						0.0835 + 0.0142	.3206					2 175	UNCH
TOTAL												1/3	
MAY19 18900						0.3568 + 0.0316						3	UNCH
19200 19800						0.3351 + 0.0308 0.2942 + 0.0292	.7071					4 2	UNCH UNCH
19900 20600						0.2877 + 0.0289 0.2450 + 0.0267	.6992 .6418					1 1	UNCH UNCH
20800 20900						0.2338 + 0.0261 0.2283 + 0.0258	.6246 .6164					2 1	UNCH UNCH
21000						0.2228 + 0.0254 0.2175 + 0.0250	.6079					6 1	UNCH
21100 21200						0.2123 + 0.0247	.5907					1	UNCH
21500 21600						0.1973 + 0.0234 0.1925 + 0.0230	.5649 .5564					3 1	UNCH
21700 21800						0.1879 + 0.0227 0.1833 + 0.0223	.5478 .5392					4 6	UNCH UNCH
22000 22200						0.1746 + 0.0217 0.1662 + 0.0210	.5223 .5054					5 4	UNCH UNCH
22300 22500						0.1621 + 0.0207 0.1542 + 0.0200	.4971 .4805					1 5	UNCH UNCH
22800 23000						0.1430 + 0.0191 0.1358 + 0.0184	.4561 .4401					5 8	UNCH UNCH
24100						0.1022 + 0.0150	.3579					1 6	UNCH
24500 TOTAL						0.0920 + 0.0139	.3306					71	UNCH
JUN19						0.2570 . 0.0260	6453						
20500 20800						0.2570 + 0.0260 0.2404 + 0.0251	.6209					1 1	UNCH UNCH
21000 21700						0.2298 + 0.0246 0.1953 + 0.0226	.6046 .5472					1 1	UNCH UNCH
21800 21900						0.1907 + 0.0224 0.1861 + 0.0220	.5391 .5309					56 100	UNCH UNCH
22000 22200						0.1817 + 0.0218 0.1730 + 0.0212	.5228 .5065					5	UNCH UNCH
25000						0.0840 + 0.0131	.3032					125 295	UNCH
TOTAL DEC19												293	
22500						0.2189 + 0.0210 0.0151 + 0.0027	.5298 .0630					50 100	UNCH UNCH
35000 TOTAL						0.0131 + 0.0027	.0030					150	UNCH
OH PUT JUL18		NYMEX HEATING	OIL (PHY) OPTIONS	5									
20500						0.0000 UNCH						0	UNCH
21300 21500						0.0010 UNCH 0.0210 UNCH						0	UNCH
21600 21700						0.0310 UNCH 0.0410 UNCH						0	UNCH UNCH
21800 21900						0.0510 UNCH 0.0610 UNCH	1.0000					0	UNCH UNCH
22000 22100						0.0710 UNCH 0.0810 UNCH						0	UNCH UNCH
22200 22300						0.0910 UNCH 0.1010 UNCH	1.0000					0	UNCH
22400 22500						0.1110 UNCH 0.1210 UNCH	1.0000					0	UNCH UNCH
22600 22700						0.1310 UNCH 0.1410 UNCH	1.0000					0	UNCH
TOTAL						0.1410 0001	1.0000					o	ONCH
AUG18						0.0000 0.0007	0125					200	IINGII
18500 18700						0.0009 - 0.0007 0.0013 - 0.0009	.0135					300 1	UNCH
19000 19500						0.0023 - 0.0014 0.0049 - 0.0026	.0317 .0627					850 350	UNCH UNCH
19600 19900			/0.0100A	/0.0100A		0.0057 - 0.0028 0.0084 - 0.0033	.0716 .1009					50 1	UNCH UNCH
20000 20400			/*0.0100A /*0.0100A	/*0.0100A /*0.0100A		0.0095 - 0.0035 0.0143 - 0.0056	.1125 .1635			1		632 50	UNCH UNCH
20500			/0.0200A /*0.0200A	/0.0200A /*0.0200A		0.0157 - 0.0064 0.0174 - 0.0072	.1784			 5		214 10	UNCH
20600			/*0.0200A /*0.0200A /*0.0200A	/*0.0200A /*0.0200A /*0.0200A		0.0174 - 0.0072 0.0192 - 0.0083 0.0211 - 0.0096	.2130					47 206	UNCH
20800 20900			/*0.0200A	/*0.0200A		0.0233 - 0.0109	.2522					14	UNCH
21000 21100			/0.0300A /*0.0300A	/0.0300A /*0.0300A		0.0257 - 0.0124 0.0285 - 0.0137	.2740					215 59	UNCH
21200 21300			/*0.0300A /*0.0300A	/*0.0300A /*0.0300A		0.0316 - 0.0151 0.0350 - 0.0165	.3225 .3485					9 1	UNCH UNCH
21500 21600			/*0.0400A /*0.0400A	/*0.0400A /*0.0400A		0.0426 - 0.0194 0.0469 - 0.0208	.4029 .4311					151 51	UNCH UNCH
21700 21800			/*0.0500A /*0.0500A	/*0.0500A /*0.0500A		0.0516 - 0.0221 0.0564 - 0.0237	.4597					1 52	UNCH
22000 (22100		0.0800	0.0800/0.0600, /0.0700A	0.0800/0.0600, /0.0700A		0.0671 - 0.0265 0.0729 - 0.0279	.5458			1		65 50	UNCH
22200 22300			/0.0700A /0.0800A /0.0800A	/0.0800A /0.0800A		0.0790 - 0.0292 0.0853 - 0.0305	.6019					51 100	UNCH
22600						0.1059 - 0.0341	.7055			 7		100 3630	UNCH
TOTAL					rureus- s:	10ED 111D		.=			ov c= -		
						JSER AND IS FURNISHED					LT UK CO	TENT. IT	12





FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		OPE INTERES	
OH PUT SEP18		NYMEX HEATING	OIL (PHY) OPTION	S									
14500 16000						0.0001 UNCH 0.0006 - 0.0001	.0010						UNCH UNCH
16500 17000						0.0010 - 0.0002 0.0017 - 0.0003	.0098					173 t	UNCH UNCH
17500 18000						0.0027 - 0.0005 0.0043 - 0.0009	.0254					201 ι	UNCH UNCH
18500						0.0067 - 0.0014 0.0080 - 0.0017	.0595					636 L	UNCH UNCH
18700 18800						0.0087 - 0.0019	.0755					40 ι	UNCH
18900 19000						0.0103 - 0.0022	.0817					1003 ι	UNCH UNCH
19200 19300						0.0122 - 0.0026 0.0132 - 0.0028	.1024					35 t	UNCH
19600 19800			/*0.0200A	/*0.0200A		0.0168 - 0.0036 0.0196 - 0.0042	.1361 .1559					140 ι	UNCH UNCH
19900 20000 (0.0200	/*0.0200A 0.0200/0.0200	/*0.0200A 0.0200/0.0200		0.0212 - 0.0046 0.0229 - 0.0049	.1667 .1781			35	500	1720 +	UNCH 535
20100 20200			/*0.0200A /*0.0300A	/*0.0200A /*0.0300A		0.0247 - 0.0054 0.0266 - 0.0060	.1900 .2024						UNCH UNCH
20300 20400			/*0.0300A /*0.0300A	/*0.0300A /*0.0300A		0.0287 - 0.0065 0.0308 - 0.0072	.2156 .2289						UNCH UNCH
20500 20600			/*0.0300A /*0.0300A	/*0.0300A /*0.0300A		0.0331 - 0.0080 0.0356 - 0.0088	.2430 .2578						UNCH UNCH
20700 20800			/*0.0400A /*0.0400A	/*0.0400A /*0.0400A		0.0383 - 0.0097 0.0412 - 0.0105	.2733 .2894						UNCH UNCH
20900 21000			/*0.0400A /0.0500A	/*0.0400A /0.0500A		0.0444 - 0.0113 0.0477 - 0.0120	.3062				50	9 ι	UNCH UNCH
21100 21200			/*0.0500A /0.0500A	/*0.0500A /0.0500A		0.0512 - 0.0124 0.0549 - 0.0129	.3408					_5 L	UNCH UNCH
21300 21400			/*0.0600A /*0.0600A	/*0.0600A /*0.0600A		0.0589 - 0.0137 0.0630 - 0.0147	.3770					81 t	UNCH UNCH
21500			/0.0600A /*0.0700A	/0.0600A /*0.0700A		0.0673 - 0.0157 0.0718 - 0.0166	.4142					130 t	UNCH UNCH
21600 21700			/*0.0700A /*0.0700A /*0.0800A	/*0.0700A /*0.0800A		0.0764 - 0.0177 0.0813 - 0.0187	.4521					75 t	UNCH UNCH
21800 21900			/*0.0800A /*0.0800A /*0.0900A	/*0.0800A /*0.0800A /*0.0900A		0.0864 - 0.0197	.4902					52 L	UNCH
22000 22100			/*0.0900A	/*0.0900A		0.0972 - 0.0217	.5283					20 ι	UNCH
22200 22300			/*0.1000A /*0.1000A	/*0.1000A /*0.1000A		0.1029 - 0.0227 0.1088 - 0.0237	.5471					2 ι	UNCH
22700 TOTAL						0.1341 - 0.0275	.6377			35	550		UNCH 535
OCT18						0.0073	0557					24	
18000 18500						0.0072 - 0.0015 0.0111 - 0.0022	.0557 .0815					25 L	UNCH UNCH
20500 21000						0.0439 - 0.0090 0.0593 - 0.0124	.2647 .3346					25 L	UNCH UNCH
21200 21500						0.0666 - 0.0139 0.0790 - 0.0163	.3649 .4122					70 ι	UNCH UNCH
22800 TOTAL						0.1511 - 0.0264	.6192					1 ເ 148	UNCH
NOV18													
17500 19200						0.0092 - 0.0016 0.0262 - 0.0033	.0591 .1519						UNCH UNCH
19800 20500						0.0362 - 0.0057 0.0535 - 0.0098	.2022					1 ι	UNCH UNCH
21000 21100						0.0706 - 0.0132 0.0745 - 0.0140	.3418					1 ι	UNCH UNCH
21200 21300						0.0786 - 0.0149 0.0828 - 0.0158	.3688					5 i	UNCH UNCH
21400						0.0873 - 0.0165 0.0970 - 0.0177	.3963					2 (UNCH UNCH
21600 21700						0.1021 - 0.0182 0.1181 - 0.0199	.4381					1 (UNCH
22000 22100						0.1237 - 0.0205	.4930					Ž i	UNCH
22500 TOTAL						0.1473 - 0.0228	.5463					65	UNCH
DEC18						0.0007 UNCH	.0052					6 1	UNCU
14200 14800						0.0014 UNCH	.0098					6 ι	UNCH
15000 15200						0.0017 - 0.0001 0.0021 - 0.0001	.0117					6 ι	UNCH
16500 17000						0.0065 - 0.0005 0.0095 - 0.0006	.0393					205 ι	UNCH
17500 18000						0.0132 - 0.0010 0.0181 - 0.0015	.0737 .0972					600 L	UNCH UNCH
18400 18500						0.0230 - 0.0020 0.0243 - 0.0022	.1197 .1256					50 ι	UNCH UNCH
18600 18700						0.0258 - 0.0023 0.0273 - 0.0025	.1321 .1386						UNCH UNCH
18800 18900						0.0289 - 0.0027 0.0305 - 0.0029	.1455 .1524					1 ι	UNCH UNCH
19000 19300						0.0323 - 0.0031 0.0380 - 0.0038	.1598 .1830					125 ι	UNCH UNCH
19500 19600						0.0422 - 0.0044 0.0445 - 0.0047	.1995 .2083					11 ι	UNCH UNCH
19800 20000						0.0493 - 0.0053 0.0545 - 0.0060	.2262 .2451					.17 L	UNCH UNCH
20500 20600						0.0696 - 0.0077 0.0729 - 0.0081	.2961					251 L	UNCH UNCH
20700 20900						0.0764 - 0.0085 0.0837 - 0.0093	.3177					$\bar{1}$ $\bar{1}$	UNCH UNCH
21000 21100						0.0876 - 0.0097 0.0915 - 0.0102	.3513				90	142 +	65 UNCH
21300 21400						0.0998 - 0.0111 0.1041 - 0.0116	.3859					1 ι	UNCH UNCH
21500 21600						0.1085 - 0.0121 0.1131 - 0.0126	.4094					<u>3</u> i	UNCH UNCH
21700						0.1131 - 0.0120 0.1178 - 0.0131 0.1226 - 0.0137	.4332					3 L	UNCH UNCH
21800 21900						0.1226 - 0.0137 0.1275 - 0.0142 0.1326 - 0.0147	.4571					16 i	UNCH
22000 22100						0.1378 - 0.0153	.4691					<u>5</u> t	UNCH
22500 22600						0.1598 - 0.0176 0.1655 - 0.0184	.5287 .5405					25 L	UNCH
TOTAL											90	3452 +	65
JAN19 18100						0.0270 - 0.0021	.1224						UNCH
18400 18600						0.0308 - 0.0027 0.0337 - 0.0031	.1381					2 ι	UNCH UNCH
18700 18800						0.0352 - 0.0034 0.0368 - 0.0036	.1557 .1620					1 ι	UNCH UNCH
19000 19500						0.0402 - 0.0040 0.0501 - 0.0053	.1751 .2117					1 ι	UNCH UNCH
20100 20200						0.0650 - 0.0077 0.0679 - 0.0082	.2626					1 ι	UNCH UNCH
20300 20400						0.0709 - 0.0086 0.0741 - 0.0090	.2812					2 ι	UNCH UNCH
20500 20700						0.0773 - 0.0095 0.0842 - 0.0103	.3007					2 ι	UNCH UNCH
21000						0.0842 - 0.0103 0.0954 - 0.0117 0.0994 - 0.0121	.3520					1 ι	UNCH UNCH UNCH
21100 21200						0.1035 - 0.0126	.3733						UNCH
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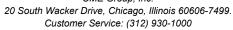
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,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRI & PT.CHO		DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
OH PUT JAN19		NYMEX HEATING	OIL (PHY) OPTIONS	;										
21300 21400						0.1077 - 0 0.1121 - 0	0.0135	.3841 .3950					1 3	UNCH UNCH
21500 21700						0.1165 - 0 0.1258 - 0	0.0140 0.0149	.4059 .4279					1 4	UNCH UNCH
22100 22500						0.1458 - (0.1676 - (0.0168 0.0188	.4723 .5163					6 3	UNCH UNCH
TOTAL													44	
FEB19 16400						0.0109 -		.0544					8 1	UNCH
18600 19000						0.0365 - (0.0444 - (0.0488 - (0.0047	.1560 .1834 .1982					70 1	UNCH UNCH UNCH
19200 19500						0.0561 - (0.0672 - (0.0062	.2216					2 1	UNCH
19900 20000 20200						0.0702 - (0.0766 - (0.0078	.2641					1 2	UNCH
20300 20400						0.0799 - 0 0.0834 - 0	0.0088	.2913					1 1	UNCH
20500 20600						0.0869 - 0 0.0906 - 0	0.0096	.3101					3 2	UNCH
20700 20800						0.0943 - 0 0.0982 - 0	0.0104	.3293					1 1	UNCH
21000 21100						0.1063 - 0 0.1105 - 0	0.0116	.3588					3	UNCH
21400 21700						0.1238 - 0 0.1381 - 0	0.0132	.3991 .4297					3 2	UNCH
21800 21900						0.1431 - 0 0.1482 - 0		.4399 .4501					1 1	UNCH UNCH
22100 22500						0.1586 - (0.1808 - (.4705 .5110					5 2	UNCH UNCH
TOTAL													115	
MAR19 18000						0.0342 - (.1379					75 1	UNCH
18600 18700						0.0451 - (0.0472 - (0.0039	.1740					1 1	UNCH
18800 18900						0.0493 - 0 0.0516 - 0 0.0589 - 0	0.0044	.1873 .1943 .2161					1 1 1	UNCH UNCH UNCH
19200 19300						0.0614 - (0.0669 - (0.0053	.2235					1 1	UNCH UNCH
19500 20000						0.0821 - (0.0888 - (0.0071	.2801					1 1	UNCH
20200 20300 20500						0.0923 - (0.0996 - (0.0080	.3061					1 2	UNCH
20700 20800						0.1073 - 0 0.1112 - 0	0.0093	.3421					1 1	UNCH
21100 21400							0.0108	.3792					2 1	UNCH
21500 21700						0.1420 - (0.1517 - (0.0123	.4172					1 1	UNCH
21800 21900						0.1567 - (0.1618 - (0.0135	.4460					20 1	UNCH
22100 22500						0.1724 - (0.1947 - (0.0146	.4748 .5127					2 1	UNCH
TOTAL						0.13	0.0202	.512.					118	o.ve
APR19 18400						0.0492 - (.1785					1	UNCH
18500 19500						0.0784 - (0.0043 0.0065	.1851 .2576					2 1	UNCH UNCH
19700 20000						0.0950 - 0	0.0070 0.0079	.2734 .2979					1 1	UNCH UNCH
20100 20300						0.1061 - 0		.3062 .3232					1 1	UNCH UNCH
20500 20600						0.1181 - (0.0093 0.0096	.3404 .3491					3 2	UNCH UNCH
20700 21400						0.1541 - (0.0100 0.0122	.3579 .4203					1 2	UNCH UNCH
21800 TOTAL						0.1744 - 0	0.0135	.4563					1 17	UNCH
MAY19						0.1073 - (0 0074	.3100					1	UNCH
20000						0.1262 - (.3503					1 1	UNCH
20800 21400						0.1664 - 0	0.0039 0.0121 0.0130	.3753 .4263 .4435					1 1	UNCH
21600 21700							0.0133	.4521					1 6	UNCH
TOTAL JUN19													Ü	
21200 TOTAL						0.1669 - 0	0.0113	. 4117					1 1	UNCH
TOTAL														
IN CAL		NVMEV MATURE	CAS (EURO) ORTO											
JUL18	L 	NYMEX NATURAL	GAS (EURO) OPTS			0.4790	UNCH	1.0000					0	UNCH
2460 2550						0.3890	UNCH	1.0000 1.0000 1.0000					0	UNCH
2590 2600						0.3490 0.3390 0.3290	UNCH	1.0000 1.0000 1.0000					0	UNCH
2610 2650						0.2890 0.2390	UNCH	1.0000					0	UNCH
2700 2730 2750						0.2090 0.1890	UNCH	1.0000					0	UNCH
2790 2790 2800						0.1490 0.1390	UNCH	1.0000					0	UNCH
2830 2850						0.1090 0.0890	UNCH	1.0000					0	UNCH
2900 2950						0.0390 0.0000	UNCH	1.0000					0	UNCH
3000 3010						0.0000	UNCH						Ŏ 0	UNCH
3050 3150						0.0000	UNCH						0	UNCH
TOTAL						3.0000	2						o	5
AUG18 550						2.4274 + (0.0500	1.0000					1	UNCH
2300 2350			#0.6800B/ #0.6300B/	#0.6800B/ #0.6300B/		0.6801 + 0 0.6301 + 0	0.0500 0.0499	.9999 .9998					7 1	UNCH
2400 2450			#0.5800B/ #0.5300B/	#0.5800B/ #0.5300B/		0.5802 + 0 0.5303 + 0	0.0498 0.0498	.9995 .9985					4 1	UNCH
2460 2500			0.4900B/	0.4900B/		0.5204 + 0 0.4806 + 0	0.0497 0.0497	.9973 .9959					1 3	UNCH UNCH
2550 2600			0.4400B/ 0.3900B/	0.4400B/ 0.3900B/		0.4309 + 0 0.3817 + 0	0.0495 0.0492	.9920 .9836					1 226	UNCH UNCH
2650 2700			0.3400B/ 0.3000B/	0.3400B/ 0.3000B/		0.3331 + 0 0.2856 + 0	0.0472	.9689 .9440					51 252	UNCH
2790	0.2300	0.2300	0.2500B/0.220 0.2200B/	0.2500B/0.220 0.2200B/		0.2049 + 0		.9052 .8617			1		2629 - 101	UNCH
2800 2850	0.1600	0.1600	0.2100B/ 0.1700/0.1500,	0.2100B/ 0.1700/0.1500			0.0414 0.0373	.8494 .7740			31 20		1895 6342 -	UNCH 17
			THIS REPORT IS COMPONDITION THAT ERROR									CY OR CO	NTENT. IT	IS

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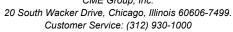
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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		(INTER	OPEN REST
LN CA		NYMEX NATURAL	GAS (EURO) OPTS										
2870			0.1500B/ 0.1300B/	0.1500B/ 0.1300B/		$ \begin{array}{rrrr} 0.1421 & + & 0.0353 \\ 0.1215 & + & 0.0322 \end{array} $.7390 .6823			103		15 5675 -	UNCH 11
2900 2930	0.1100	0.1100 0.1000	0.1100B/0.090 0.1000B/0.080	0.1100B/0.090 0.1000B/0.080		0.1027 + 0.0291 0.0912 + 0.0269	.6212			12 294		75 - 3195 -	3 174
2950 2980	0.0800	0.0800	0.0800B/0.080 0.0700B/0.060	0.0800B/0.080 0.0700B/0.060		0.0755 + 0.0235 0.0661 + 0.0214	.5145			81 1496	1200	117 + 12724 +	56
3000 3010		0.0700 0.0400	0.0700B/0.060 0.0700B/ 0.0500/0.0400	0.0700B/0.000 0.0700B/ 0.0500/0.0400		0.0617 + 0.0214 0.0617 + 0.0203 0.0462 + 0.0162	.4501			682	650	242 7621 +	1559 UNCH 489
3050 3070			0.0500B/ 0.0400B/	0.0500B/ 0.0400B/		0.0396 + 0.0143 0.0366 + 0.0134	.3283			 51		220 79 +	UNCH 3
3080 3090 3100	0.0300	0.0300 0.0300	0.0400B/0.0300 0.0400/0.0300	0.0400B/0.030 0.0400/0.0300		0.0338 + 0.0125 0.0311 + 0.0117	.2914			1 576		291 5800 +	UNCH 53
3130 3140			0.0300B/ 0.0300B/	0.0300B/ 0.0300B/		0.0241 + 0.0093 0.0221 + 0.0085	.2242					114 399	UNCH
3150 3200	0.0200	0.0200 0.0100	0.0200/0.0200 0.0100/0.0100	0.0200/0.0200 0.0100/0.0100		0.0203 + 0.0079 0.0130 + 0.0052	.1952			1178 69		9471 + 5378 -	612
3250 3260	0.0100	0.0100 0.0100	0.0100/0.0100 0.0100/0.0100	0.0100/0.0100 0.0100/0.0100		0.0081 + 0.0029 0.0074 + 0.0026	.0895			749 17	550	27848 + 319 +	705 17
3300 3350		0.0100	0.0100/0.0100 0.0000B/	0.0100/0.0100 0.0000B/		0.0051 + 0.0017 0.0032 + 0.0009	.0590			714 13		4028 + 1195 +	301 10
3400 3450	0.0000	0.0000	0.0000/0.0000	0.0000/0.0000		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0257 .0173			13		2408 + 637	9 UNCH
3500 3550			0.0000B/ 0.0000B/	0.0000B/ 0.0000B/		0.0010 + 0.0003 $0.0008 + 0.0003$.0123			270		9137 792	UNCH
3600 3650			′			0.0006 + 0.0003 0.0005 + 0.0003	.0071 .0058					1386 56 +	UNCH 6
3700 3750						0.0004 + 0.0002 0.0003 + 0.0002	.0045					121 3325	UNCH
3800 3850						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0023					1014 30	UNCH
3900 4000						0.0001 UNCH 0.0001 UNCH	.0011					1 12404	UNCH
4050 4150						0.0001 UNCH 0.0001 UNCH	.0002					1 100	UNCH
4250 4400						0.0001 UNCH 0.0001 UNCH	.0000					650 55	UNCH
4450 4500						0.0001 UNCH 0.0001 UNCH						100 1295	UNCH
4600 4750						0.0001 UNCH 0.0001 UNCH						176 1025	UNCH
4800 5000						0.0001 UNCH 0.0001 UNCH						25 661	UNCH
5250 5500						0.0001 UNCH 0.0001 UNCH						25 76	UNCH
5800 6000						0.0001 UNCH 0.0001 UNCH						2 617	UNCH UNCH
6500 6750						0.0001 UNCH 0.0001 UNCH						260 50	UNCH
7000 7250						0.0001 UNCH 0.0001 UNCH						61 20	UNCH UNCH
7500 8000						0.0001 UNCH 0.0001 UNCH						100 25	UNCH
9000 1000	0					0.0001 UNCH 0.0001 UNCH						100 10	UNCH UNCH
TOTAL										6377	2400	133066 +	3561
SEP18 2300			#0.6500B/	#0.6500B/		0.6492 + 0.0438	.9967					1	UNCH
2450 2460			#0.5000B/	#0.5000B/		$\begin{array}{cccc} 0.5010 & + & 0.0431 \\ 0.4912 & + & 0.0430 \end{array}$.9841					1 2	UNCH
2500 2550			0.4600B/ 0.4100B/ 0.3700B/	0.4600B/ 0.4100B/		0.4524 + 0.0427 0.4046 + 0.0419 0.3579 + 0.0406	.9729					1 1	UNCH
2600 2610			0.3600B/ 0.3300B/	0.3700B/ 0.3600B/ 0.3300B/		0.3487 + 0.0408 0.3129 + 0.0389	.9334 .9277 .9002					248 26	UNCH UNCH UNCH
2650 2700			0.2800B/ 0.2400B/	0.2800B/ 0.2400B/		0.2701 + 0.0366 0.2300 + 0.0338	.8573 .8037					73 85 2330	UNCH
2750 2800			0.2000B/ 0.1800B/	0.2000B/ 0.1800B/		0.1933 + 0.0309 0.1729 + 0.0289	.7407 .6994			9		1805 + 12	1 UNCH
2830 2850 2900	0.1300	0.1300	0.1700B/ 0.1400B/0.130	0.1700B/ 0.1400B/0.130		0.1601 + 0.0275 0.1306 + 0.0240	.6706 .5957			120		4058 5428 +	UNCH 23
2950 2980	0.1100	0.1100	0.1200B/0.100 0.1000B/	0.1200B/0.1000 0.1000B/		0.1051 + 0.0207 0.0915 + 0.0187	.5191 .4735			167		1475 + 35	88 UNCH
3000 3010			0.0900B/ 0.0900B/	0.0900B/ 0.0900B/		0.0832 + 0.0174 0.0793 + 0.0167	.4436 .4289			134		13661 - 26	122 UNCH
3030 3050	0.0700	0.0700	0.0800B/ 0.0700B/0.060	0.0800B/ 0.0700B/0.060		$0.0719 + 0.0155 \\ 0.0650 + 0.0143$.4001 .3720			318		9 3283 +	UNCH 219
3070 3080			0.0700B/ 0.0600B/	0.0700B/ 0.0600B/		0.0586 + 0.0132 0.0556 + 0.0126	.3448 .3316					103 10	UNCH
3090 3100			0.0600B/ 0.0600B/	0.0600B/ 0.0600B/		0.0528 + 0.0121 0.0500 + 0.0115	.3189 .3061			1		100 3734 +	UNCH 1
3130 3140			0.0500B/ 0.0500B/	0.0500B/ 0.0500B/		0.0425 + 0.0101 0.0402 + 0.0096	.2701 .2587					2 55	UNCH UNCH
3150 3180		0.0400 0.0300	0.0400B/0.030 0.0400B/0.030	0.0400B/0.030 0.0400B/0.030		$ \begin{array}{rrrr} 0.0380 & + & 0.0092 \\ 0.0320 & + & 0.0079 \end{array} $.2475 .2160			553 1		2564 + 71 +	520 1
3200 3250	0.0300	0.0300 0.0200	0.0300B/0.0300 0.0300/0.0200	0.0300B/0.030 0.0300/0.0200		0.0284 + 0.0071 0.0210 + 0.0054	.1964 .1534			214 518	100	2914 + 7470 +	88 291
3260 3300	0.0200	0.0200	0.0200B/ 0.0200B/0.010	0.0200B/ 0.0200B/0.010		$ \begin{array}{rrrr} 0.0197 & + & 0.0051 \\ 0.0153 & + & 0.0040 \end{array} $.1455 .1177			729		132 1907 -	UNCH 52
3350 3400		0.0100 0.0100	0.0100B/0.0100 0.0100/0.0100	0.0100B/0.0100 0.0100/0.0100		$ \begin{array}{rrrr} 0.0112 & + & 0.0030 \\ 0.0081 & + & 0.0022 \end{array} $.0899 .0677			9 20		1957 + 1002 -	9 2
3450 3500			0.0100B/ 0.0100B/	0.0100B/ 0.0100B/		$ \begin{array}{rrrr} 0.0059 & + 0.0016 \\ 0.0043 & + 0.0011 \end{array} $.0510 .0382			5 166		252 + 11311 -	1 40
3550 3600			0.0000B/ 0.0000B/	0.0000B/ 0.0000B/		0.0032 + 0.0008 0.0024 + 0.0006	.0290 .0221			82		1249 540 -	UNCH 53
3650 3700			0.0000B/	0.0000B/		$0.0018 + 0.0004 \\ 0.0014 + 0.0003$.0169 .0132					409 100	UNCH
3750 3800			0.0000B/	0.0000B/		0.0011 + 0.0002 0.0009 + 0.0002	.0104					2576 940	UNCH
3850 4000						$ \begin{array}{r} 0.0007 + 0.0001 \\ 0.0004 + 0.0001 \end{array} $.0066 .0037					20 2917	UNCH UNCH
4150 4250						0.0002 UNCH 0.0001 UNCH	.0019					100 654	UNCH
4400 4450						0.0001 UNCH 0.0001 UNCH	.0003					55 100	UNCH
4500 4600						0.0001 UNCH 0.0001 UNCH	.0001					1370 90	UNCH
4700 4750						0.0001 UNCH 0.0001 UNCH	.0000					86 1025	UNCH
4800 5000						0.0001 UNCH 0.0001 UNCH	.0000					25 662	UNCH
5250 5500						0.0001 UNCH 0.0001 UNCH						25 76	UNCH
5800 6000						0.0001 UNCH 0.0001 UNCH						2 615	UNCH UNCH
6500 6750						0.0001 UNCH 0.0001 UNCH						260 50	UNCH
7000 7250						0.0001 UNCH 0.0001 UNCH						61 20	UNCH
7500 8000						0.0001 UNCH 0.0001 UNCH						100 25	UNCH
9000 1000						0.0001 UNCH 0.0001 UNCH						100 10	UNCH
18000 TOTAI						0.0001 UNCH				3046	100	3 80409 +	UNCH 973
OCT18													
THE 1	INFORMATION	CONTATNED IN I	THIS PEDODT IS COM	DTI ED EOD THE CON	ENTENCE OF THE	USER AND IS FURNISHED \	ATTHOUT B	ECDONCT	DTI TTV E	OR ACCURA	CV OR CO	NITCHT TT	T.C.

CME Group, Inc.





FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

Section Sect		GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		(INTER	OPEN REST
The color The			NYMEX NATURAL	GAS (EURO) OPTS										
1.00	2000													
\$200	2350			#0.6000B/	#0.6000B/		0.6041 + 0.0410	.9839					2	UNCH
1.00	2460						0.4981 + 0.0397	.9601					3	UNCH
1.00	2550			0.4300B/	0.4300B/		0.4147 + 0.0379	.9236					1	
	2610			0.3800в/	0.3800B/		0.3618 + 0.0360	.8872					4	UNCH
1	2700			0.3000B/	0.3000B/		0.2880 + 0.0325	.8148					86	UNCH
200 1.3000 1.3100 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.3000 1.30000 1.30000 1.30000 1.30000 1.30000 1.3000 1.3000 1.3000 1.3000 1.30000 1.30000 1.30000 1.30000 1.30000 1.30000 1.30000 1.30000	2800			0.2200B/	0.2200B/		0.2159 + 0.0278	.7105					3803	UNCH
180 0 1100 0 1100 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 1200 0 120	2900			0.1700B/	0.1700B/		0.1556 + 0.0226	.5902			184		2991 -	37
20.00 2.1000	2980			0.1300B/	0.1300в/		0.1165 + 0.0184	.4904					40	UNCH
100 B 1 100 B	3010			0.1100B/	0.1100B/		0.1039 + 0.0169	.4538						UNCH
0.000	3050	0.1000		0.1000B/0.080	0.1000B/0.080		0.0887 + 0.0150	.4063						50
180 0.0700 0.0700 0.0000.0.0000 0.0000.0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0	3080			0.0900B/	0.0900B/		0.0784 + 0.0136	.3719					17	UNCH
1309 0.0000	3100	0.0700		0.0800B/0.070	0.0800B/0.070		0.0722 + 0.0128	.3500					2311 +	49
1.50	3150	0.0600		0.0600B/0.060	0.0600B/0.060		0.0582 + 0.0108	.2979					792 +	25
1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909	3250	0.0400	0.0400	0.0400B/0.030	0.0400B/0.030		0.0368 + 0.0072	.2084			140		8439 +	30
200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200	3300			0.0300B/	0.0300в/		0.0290 + 0.0058	.1718					1334	UNCH
1900 1,000	3400			0.0200в/	0.0200в/		0.0178 + 0.0037	.1141					2140	UNCH
1000 0.0100	3500	0.0100	0.0100	0.0100/0.0100	0.0100/0.0100		0.0109 + 0.0023	.0745			65		13665	UNCH
1000 1000	3600			0.0100B/	0.0100B/		0.0067 + 0.0014	.0481					464	UNCH
1300	3700			0.0000B/	0.0000B/		0.0042 + 0.0008	.0313					2304	UNCH
3800	3800			0.0000B/	0.0000B/		0.0027 + 0.0005	.0207					1390	UNCH
4950	3900			0.0000B/	0.0000B/		0.0018 + 0.0003	.0140					500	UNCH
100	4050			0.0000B/	0.0000B/		0.0011 + 0.0002	.0086					2	UNCH
1.000	4150						0.0008 + 0.0002	.0062					100	UNCH
1.0000							0.0005 + 0.0001	.0039					2	UNCH
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000														
4700	4500													
4800	4700												24	
1.000	4800						0.0001 UNCH	.0005					25	UNCH
1.000	5250						0.0001 UNCH	.0000					25	UNCH
0.0001 NICKH	5800						0.0001 UNCH						2	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	6500						0.0001 UNCH						260	UNCH
100 1000	7000						0.0001 UNCH						61	UNCH
10000	7500						0.0001 UNCH							UNCH
NOV18 2500	9000						0.0001 UNCH							UNCH
2500							0.0001 UNCH				1099			
2600 - #0.41008/- #0.41008/- 0.41008/- 0.41008/- 0.41008/- 0.0008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.33008/- #0.3208/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528/- #0.2528				#0.5000B/	#0.5000B/		0.5043 + 0.0351	.9237					1	UNCH
2750	2600			#0.4100B/	#0.4100B/		0.4171 + 0.0326	.8727						UNCH
2850	2750			0.3000B/	0.3000B/		0.3001 + 0.0277	.7624					500	UNCH
2950	2850			0.2400B/	0.2400B/		0.2337 + 0.0242	.6702					569	UNCH
3000	2950			0.1900в/	0.1900в/		0.1776 + 0.0205	.5698					500	UNCH
3030	3000			0.1600в/	0.1600B/		0.1534 + 0.0186	.5189					7636	UNCH
3000 0.13008/ 0.13008/ 0.13008/ 0.1237 0.0161 4491 100 UNCH 3100 0.1100 0.13008/0.1101 0.13008/0.1101 0.13008/0.1101 0.13008/0.1101 0.1128 0.0157 4393 10 11 1079 UNCH 3100 1000 UNCH 3100 1000 UNCH 3100 10008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/ 0.11008/	3030			0.1500B/	0.1500B/		0.1401 + 0.0175	.4887					110	UNCH
100 100 0.1100 0.12008/0.110 0.12008/0.110 0.11008	3070			0.1300B/	0.1300B/		0.1237 + 0.0161	.4491					100	UNCH
3150	3100	0.1100	0.1100	0.1200B/0.110	0.1200B/0.110		0.1124 + 0.0150	.4201			11		1079	UNCH
3250 0.0700 0.07008 0.07008/0.0601 0.07008/0.0601 0.0675 + 0.0102 2.888 2.00 4857 + 64 3300 0.07008/ 0.07008/ 0.06008/ 0.0651 + 0.0008 2.811 311 UNCH 3300 0.06008/ 0.06008/ 0.05008/ 0.0563 + 0.0087 2.511 3518 UNCH 3300 0.06008/ 0.05008/ 0.03008/ 0.0466 + 0.0077 2.511 3518 UNCH 3450 0.03008 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/ 0.03008/	3150			0.1000B/	0.1000B/		0.0953 + 0.0132	.3735				36	303 +	36
3300 0.06008 0.06008 0.0503 0.0503 0.0087 2511 3518 UNCH 3400 0.05008 0.04008 0.04008 0.04008 0.04008 0.0308 0.0387 +0.0064 1863 3000 UNCH 3500 0.0300 0.0300 0.03008 0.03008 0.03008 0.03008 0.03008 0.03008 0.03008 0.03008 0.03008 0.03008 0.0262 +0.0045 1351 3000 UNCH 3500 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008 0.02008	3250	0.0700	0.0700	0.0700B/0.060	0.0700B/0.060		0.0675 + 0.0102	.2888			200		4857 +	64
3400	3300			0.0600B/	0.0600B/		0.0563 + 0.0087	.2511					3518	UNCH
3500 0.0300 0.0300k 0.0300k/0.030l 0.03000k/0.030l 0.0262 + 0.0045 .1351 2 6102 UNCH 3600 0.0200k/ 0.0200k/ 0.0215 + 0.0037 .1144 72 UNCH 3600 0.0200k/ 0.0200k/ 0.0177 + 0.0030 .0967 39 UNCH 3600 0.0200k/ 0.0200k/ 0.0114 0.0025 .0817 108 UNCH 3700 0.0100k/ 0.0100k/ 0.0114 0.0025 .0692 120 UNCH 3750 0.0100k/ 0.0100k/ 0.01014 0.0017 0.588 120 UNCH 3800 0.0100k/ 0.0100k/ 0.0000k/ 0	3400			0.0400B/	0.0400B/		0.0387 + 0.0064	.1863					1649	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	3500	0.0300	0.0300	0.0300B/0.030	0.0300B/0.030		0.0262 + 0.0045	.1351			2		6102	UNCH
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3600			0.0200B/	0.0200B/		0.0177 + 0.0030	.0967					39	UNCH
3850	3700			0.0100B/	0.0100B/		0.0121 + 0.0020	.0692					120	UNCH
3900	3800			0.0100B/	0.0100B/		0.0084 + 0.0014	.0497					475	UNCH
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3900			0.0100B/	0.0100B/		0.0059 + 0.0010	.0359					125	UNCH
A200 0.0008/ 0.00008/ 0.00008/ 0.00008/ 0.00021 0.0003 0.033 100 UNCH 4450 0.0015 0.0002 0.0094 55 UNCH 4450 55 UNCH 4500 655 UNCH 4500 655 UNCH 4600 655 UNCH 4750 655 UNCH 4800 135 UNCH 4800	4000			0.0000B/	0.0000B/		0.0043 + 0.0007	.0266					4280	UNCH
4400	4200						0.0024 + 0.0004	.0152					100	UNCH
4500	4400						0.0015 + 0.0002	.0094					55	UNCH
4600 0.0010 + 0.0002 .0062 135 UNCH 4750 0.0007 + 0.0001 .0044 801 UNCH 4800 0.0007 + 0.0002 .0043 25 UNCH 4800 0.0007 + 0.0002 .0043 4 4 + 4 4 5 0.000 4 4 + 4 4 4 5 0.000	4500						0.0012 + 0.0002	.0075					655	UNCH
4800 0.0007 + 0.0002 0.043 25 UNCH 4950 0.0000 0.0000 #0.0000/*0.001 #0.0000/*0.001 0.0005 NEW 0.031 4 44 45 UNCH 5000 0.0004 UNCH 0.025 463 UNCH 5250 0.0003 + 0.0001 0.018 25 UNCH 5800 0.0002 + 0.0001 0.012 25 UNCH 5800 0.0002 + 0.0001 UNCH 0.006 25 UNCH 6000 0.0001 UNCH 0.006 260 UNCH 6000 0.0001 UNCH 0.0000 260 UNCH 6550 0.0001 UNCH 0.0000 260 UNCH 6750 0.0001 UNCH 0.0000 50 UNCH	4600						0.0007 + 0.0001	.0044					801	UNCH
5000 0.0004 UNCH .0025 463 UNCH 5250 0.0003 + 0.0001 .0018 25 UNCH 5800 0.0002 + 0.0001 .0012 76 UNCH 5800 0.0001 UNCH .0006 2 UNCH 6000 0.0001 UNCH .0003 2 UNCH 6500 0.0001 UNCH .0000 260 UNCH 6750 0.0001 UNCH .0000 50 UNCH 7000 </td <td>4800</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0007 + 0.0002 0.0005 NEW</td> <td>.0031</td> <td></td> <td></td> <td></td> <td></td> <td>4 +</td> <td>UNCH 4</td>	4800						0.0007 + 0.0002 0.0005 NEW	.0031					4 +	UNCH 4
5500 0.0002 + 0.0001 .0012 76 UNCH 5800 0.0001 UNCH .0006 22 UNCH 6000 0.0001 UNCH .0003 360 UNCH 6500 0.0001 UNCH .0000 0.0001 UNCH 6750 0.0001 UNCH .0000 0.0001 UNCH	5000						0.0004 UNCH 0.0003 + 0.0001	.0025 .0018					25	
6000 0.0001 UNCH .0003 360 UNCH 6500 0.0001 UNCH .0000 260 UNCH 6750 0.0001 UNCH .0000 50 UNCH 7000 0.0001 UNCH .0000 61 UNCH 7250 0.0001 UNCH .0000 20 UNCH	5500						0.0002 + 0.0001	.0012					76	UNCH
750 50 UNCH 7000 0.0001 UNCH .0000 50 UNCH 7250 61 UNCH 7250 20 UNCH	6000						0.0001 UNCH	.0003					360	UNCH
$\frac{7250}{1000}$ 0.0001 UNCH .0000 20 UNCH	6750						0.0001 UNCH 0.0001 UNCH	.0000					50 61	UNCH
THE INFORMATION CONTAINED IN THIS PEDDY IS COMPLETED FOR THE COST AND TO CONTROL WITHOUT DESCRIPTION TO FOR ACCURACY OR CONTEST. IT TO	7250						0.0001 UNCH	.0000					20	UNCH



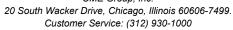


FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		.PRICE .CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		INTE	OPEN REST
LN CA		NYMEX NATURAL	GAS (EURO) OPTS							VOLUME				
7500 8000						0.0001 0.0001	UNCH UNCH						100 25	UNCH UNCH
9000 1000						0.0001 0.0001	UNCH UNCH						100 10	UNCH UNCH
TOTA											268	36	45204 +	154
2000 2600			#1.0800B/ #0.5200B/	#1.0800B/ #0.5200B/		0.5282	+ 0.0333 + 0.0273	.9943 .8747					2500 25	UNCH UNCH
2700 2750			#0.4400B/ 0.4100B/	#0.4400B/ 0.4100B/		0.4096	+ 0.0250 + 0.0240	.8226 .7921					1 150	UNCH UNCH
2800 2850			0.3800B/ 0.3500B/	0.3800B/ 0.3500B/		0.3396	+ 0.0227 + 0.0214	.7592 .7241					85 50	UNCH
2900 2950			0.3100B/ 0.2800B/ 0.2600B/	0.3100B/ 0.2800B/ 0.2600B/			+ 0.0201 + 0.0190 + 0.0175	.6873 .6491 .6100			 40		500 58 7874	UNCH UNCH UNCH
3000 3010 3030			0.2500B/ 0.2400B/	0.2500B/ 0.2500B/		0.2444	+ 0.0173 + 0.0174 + 0.0168	.6022					18 100	UNCH
3050 3050 3070			0.2300B/ 0.2200B/	0.2300B/ 0.2200B/		0.2240	+ 0.0163 + 0.0159	.5703			1		585 100	UNCH
3080 3100			0.2200B/ 0.2100B/	0.2200B/ 0.2100B/		0.2095	+ 0.0156 + 0.0152	.5465					10 944	UNCH
3140 3150			0.1900B/ 0.1900B/	0.1900B/ 0.1900B/		0.1828 0.1786	+ 0.0143 + 0.0141	.4995 .4917					15 179	UNCH UNCH
3200 3250			0.1700B/ 0.1500B/	0.1700B/ 0.1500B/		0.1408	+ 0.0129 + 0.0118	.4536 .4167					430 4687	UNCH
3260 3300			0.1500B/ 0.1300B/	0.1500B/ 0.1300B/			+ 0.0116 + 0.0107	.4095					10 640	UNCH
3330 3350			0.1200B/ 0.1200B/ 0.1100B/	0.1200B/ 0.1200B/ 0.1100B/		0.1099	+ 0.0102 + 0.0097 + 0.0094	.3610 .3477 .3348					11 6253 74	UNCH UNCH UNCH
3370 3400 3450			0.1000B/ 0.0900B/	0.100B/ 0.1000B/		0.0968	+ 0.0034 + 0.0088 + 0.0078	.3159				33	759 + 133	33 UNCH
3500 3550	0.0700	0.0700	0.0800B/0.070 0.0700B/	0.0800B/0.070 0.0700B/		0.0746	+ 0.0070 + 0.0061	.2582			60		8717 - 145	40 UNCH
3600 3650			0.0600B/ 0.0500B/	0.0600B/ 0.0500B/		0.0571 0.0499	+ 0.0053 + 0.0047	.2085 .1867				100	721 601	UNCH UNCH
3700 3750	0.0400	0.0400	0.0500B/ 0.0400/0.0400	0.0500B/ 0.0400/0.0400		0.0436 0.0381	+ 0.0041 + 0.0036	.1670 .1491			1		120 3228 +	UNCH 1
3800 3850		0.0200	0.0300B/ 0.0300B/	0.0300B/ 0.0300B/		0.0291	+ 0.0032 + 0.0028	.1330					338 170	UNCH UNCH
3900 3950		0.0300 	0.0300/0.0300, 0.0200B/ 0.0200B/	0.0300/0.0300, 0.0200B/ 0.0200B/		0.0222	+ 0.0024 + 0.0021 + 0.0018	.1054 .0937 .0832			1 		43 + 36 4445	UNCH UNCH
4000 4050 4100	0.0200	0.0200	0.0200B/ 0.0200/0.0200 0.0200B/	0.0200B/ 0.0200/0.0200 0.0200B/		0.0170	+ 0.0016 + 0.0014	.0740			3		14 + 37	3 UNCH
4200 4250			0.0100B/ 0.0100B/	0.0100B/ 0.0100B/		0.0115	+ 0.0010 + 0.0009	.0521					108 532	UNCH
4400 4450			0.0100B/ 0.0100B/	0.0100B/ 0.0100B/		0.0071	+ 0.0006 + 0.0005	.0333					109 105	UNCH
4500 4600						0.0057 0.0046	+ 0.0005 + 0.0004	.0271 .0221					1582 135	UNCH UNCH
4650 4750			0.0000B/	0.0000B/		0.0034	+ 0.0003 + 0.0002	.0198 .0165					800 800	UNCH
4800 4950			0.0000B/	0.0000B/		0.0024	+ 0.0002 + 0.0001	.0151					29 1	UNCH
5000 5250 5500						0.0015	+ 0.0001 + 0.0001 + 0.0001	.0107 .0073 .0053					919 25 76	UNCH UNCH UNCH
5800 6000						0.0011 0.0007 0.0005	UNCH	.0034					2 2 2859	UNCH
6500 6750						0.0003 0.0002	UNCH	.0014					260 50	UNCH
7000 7250						0.0002 0.0001	+ 0.0001 UNCH	.0009					61 20	UNCH UNCH
7500 8000						0.0001 0.0001	UNCH UNCH	.0003					100 25	UNCH
9000 1000						0.0001 0.0001	UNCH UNCH	.0000			106	122	100 10	UNCH
TOTA JAN19											106	133	52718 -	2
2800 2850						0.4683 0.4341	+ 0.0229 + 0.0216	.7717 .7437					700 295	UNCH UNCH
2860 2890						0.4275 0.4081	+ 0.0213 + 0.0204	.7403 .7222					22 20	UNCH UNCH
2900 2950						0.4019 0.3717	+ 0.0202 + 0.0190	.7144 .6839					35 125	UNCH
2970 2980			 	 		0.3602 0.3545	+ 0.0186 + 0.0184	.6723					20 19	UNCH
3000 3010			#0.3400B/ #0.3200B/	#0.3400B/ #0.3200B/		0.3434 0.3379 0.3167	+ 0.0180 + 0.0178 + 0.0169	.6528 .6470 .6214				150 	2670 + 2 518	50 UNCH UNCH
3050 3070 3080			#0.3200B/	#0.3200B/		0.3065 0.3015	+ 0.0165 + 0.0162	.6089					20	UNCH
3100 3150			#0.3000B/ 0.2700B/	#0.3000B/ 0.2700B/		0.2918 0.2686	+ 0.0159 + 0.0149	.5899					2299 35	UNCH
3200 3250		0.2300	0.2500B/ 0.2300B/0.230	0.2500B/ 0.2300B/0.230		0.2469 0.2268	+ 0.0140 + 0.0132	.5277 .4976			10	75 	543 + 4623	75 UNCH
3300 3400		0.2000	0.2100B/0.200 0.1800B/	0.2100B/0.200 0.1800B/		0.2082 0.1751	+ 0.0124 + 0.0109	.4682 .4125			105		305 + 150	105 UNCH
3450 3500			0.1700B/ 0.1500B/ 0.1400B/	0.1700B/ 0.1500B/		0.1605 0.1470 0.1346	+ 0.0103 + 0.0096	.3863					60 9015	UNCH
3550 3600 3650			0.1400B/ 0.1300B/ 0.1200B/	0.1400B/ 0.1300B/ 0.1200B/		0.1346 0.1233 0.1129	+ 0.0090 + 0.0085 + 0.0080	.3375 .3149 .2936					11 710 99	UNCH UNCH UNCH
3700 3750			0.1100B/ 0.1000B/	0.1100B/ 0.1000B/		0.1034 0.0948	+ 0.0075 + 0.0072	.2735					330 9750	UNCH
3800 3850			0.0900B/ #0.0800B/	0.0900B/ #0.0800B/		0.0868 0.0795	+ 0.0067 + 0.0062	.2369					103 150	UNCH
4000 4100	0.0600	0.0600	0.0600/0.0600 #0.0500B/	0.0600/0.0600 #0.0500B/		0.0612 0.0515	+ 0.0049 + 0.0042	.1766 .1522			23		4176 - 1	4 UNCH
4200 4250			#0.0400B/ 0.0400B/	#0.0400B/ 0.0400B/		0.0434	+ 0.0035 + 0.0032	.1312					100 2705	UNCH
4500 4650			0.0300B/ 0.0200B/	0.0300B/ 0.0200B/		0.0264 0.0208	+ 0.0021 + 0.0016	.0843			109		2320 + 55	UNCH
4750 5000 5150			0.0200B/ 0.0100B/	0.0200B/ 0.0100B/		0.0178 0.0123 0.0099	+ 0.0014 + 0.0010 + 0.0008	.0589 .0418 .0341					199 3787 170	UNCH UNCH UNCH
5200 5250	0.0100	0.0100	#0.0100/*0.010 0.0100B/	#0.0100/*0.010 0.0100B/		0.0092 0.0086	NEW + 0.0007	.0318			1		1 + 100	1 UNCH
5500 6000						0.0062 0.0035	+ 0.0007 + 0.0006 + 0.0005	.0219					175 522	UNCH
6400 6500	0.0000	0.0000	#0.0000/*0.000 	#0.0000/*0.000		0.0023 0.0020	NEW + 0.0003	.0083			1		1 + 50	1 UNCH
7000 7500						0.0012 0.0008	+ 0.0002 + 0.0002	.0044					10 10	UNCH
9000 TOTA						0.0002	UNCH	.0007			249	225	400 47413 +	UNCH 337
FEB19 2800						0.4860	+ 0.0210	.7244					700	UNCH
2850 2860						0.4568 0.4512	+ 0.0202 + 0.0201	.6990 .6951					295 22	UNCH UNCH
2890 2900						0.4293	+ 0.0196 + 0.0194	.6794					20 35	UNCH
2950 THE		N CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE	0.4033	+ 0.0187 FURNISHED W	.6475	ESPONSI	BILITY F	OR ACCURA	CY OR CO	125 ONTENT. IT	IS
			ONDITION THAT ERRO	RS OR OMISSIONS SE	HALL NOT BE MAD		OR ANY CLAI							

CME Group, Inc.



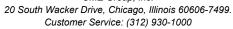


FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

Column	THE	NOMINAL	PRICE IS THE	PREVIOUS DAY'S S	SETTLEMENT PRIC	Ε.								
Note										OUTCRY				
1985 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986 1986			NYMEX NATURAL	GAS (EURO) OPTS										
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2970													
Company Comp	3000						0.3788 + 0.0179 0.3741 + 0.0178	.6218						
0.14000							0.3470 + 0.0167	.5861					20	UNCH
100	3100			0.3400B/	0.3400B/		0.3342 + 0.0163	.5711					312	UNCH
100							0.2951 + 0.0147	.5224					29	UNCH
1.000	3300						0.2610 + 0.0132	.4766					206	UNCH
1.00	3450			0.2200B/	0.2200B/		0.2178 + 0.0114	.4141					160	UNCH
	3750			0.1500B/	0.1500B/		0.1536 + 0.0084	.3112					1383	UNCH
Section Sect	3850						0.1372 + 0.0075	.2829					166	UNCH
\$1.000m/	4000			0.1100B/	0.1100B/		0.1162 + 0.0066	.2454					2901	UNCH
1.000	4100						0.1041 + 0.0060	.2232					34	UNCH
400 0.7700 0.0700 0.0700.0.0700 0.0700.0.0700 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000	4200						0.0934 + 0.0055	.2031					130	UNCH
4500 0.0000	4500	0.0700	0.0700	0.0700/0.0700	0.0700/0.0700		0.0679 + 0.0040	.1534			3		1483 +	3
9500 0.0400 0.0400, 0.0400 0.0400, 0.0400 0.0400, 0.0400 0.0400 0.0400 0.0700 0.0700 0.0000 0.0400, 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400	4650						0.0582 + 0.0035	.1336					55	UNCH
1.00	5000	0.0400	0.0400	0.0400/0.0400	0.0400/0.0400		0.0412 + 0.0025	.0977			5		3881	UNCH
1 1 1 1 1 1 1 1 1 1	5250						0.0325 + 0.0020	.0787					101	UNCH
Company Comp	5650						0.0224 + 0.0015	.0559					1	UNCH
Section	6000						0.0164 + 0.0011	.0418					520	UNCH
1.00	6800						0.0084 + 0.0006	.0223					264	UNCH
MALES	7500						0.0047 + 0.0004	.0130					10	UNCH
1.000							0.0013 + 0.0001	.0044						
2000							2.4583 + 0.0287	1.0000					1	UNCH
2860	2800						0.4465 + 0.0194	.6713					700	UNCH
2000	2860						0.4164 + 0.0184	.6424					22	UNCH
2570	2900						0.3977 + 0.0179	.6227					338	UNCH
1,000	2970						0.3670 + 0.0169	.5893					20	UNCH
3950	3000			0.3600B/	0.3600B/		0.3546 + 0.0165	.5752				150	8418	UNCH
1980	3050			0.3400B/	0.3400B/		0.3349 + 0.0158	.5521					79	UNCH
3150	3080						0.3236 + 0.0154	.5386					2	UNCH
1,27006 0,27006 0,27006 0,27006 0,2701 0,0131 4664 4748 MXH MX	3150						0.2988 + 0.0144	.5079					281	UNCH
0.2392 + 0.0124	3250			0.2700B/	0.2700B/		0.2671 + 0.0132	.4664					2748	UNCH
3500	3350						0.2392 + 0.0119	.4279					100	UNCH
3750 — 0.16008/— 0.15008/— 0.15008/— 0.15018 — 0.0848 3028 — 100 3982 100 3900 — 0.13008/— 0.13008/— 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.13018 — 0.130	3500				0.2100B/		0.2036 + 0.0104	.3758					6178	UNCH
1.00	3750				0.1600B/		0.1571 + 0.0084	.3028				100	3982 -	100
1906	3850						0.1420 + 0.0077	.2779					150	UNCH
100	4000			0.1200B/	0.1200B/		0.1224 + 0.0069	.2446					14917	UNCH
1200	4100						0.1110 + 0.0063	.2247					50	UNCH
4300	4200						0.1008 + 0.0057	.2066					113	UNCH
4500 0.0800 0.0800 0.0800/0.0800 0.0800/0.0800 0.0800/0.0800 0.0763 + 0.0044 1.1614 2 5150 UKCH 4500 0.0500 0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.0500 0.0500/0.	4300			0.0900B/	0.0900B/		0.0918 + 0.0053	.1902					25	UNCH
4756		0.0800	0.0800				0.0763 + 0.0044	.1614			2		5116 +	2
1.515	4750	. ====		0.0600B/	0.0600B/		0.0610 + 0.0037	.1320					180	
1.00							0.0429 + 0.0027	.0961					50	
Control Cont	5500						0.0320 + 0.0021	.0736					142	UNCH
1.00	6000						0.0216 + 0.0015	.0511					888	UNCH
10 10 10 10 10 10 10 10							0.0150 + 0.0010	.0364					62	UNCH
APRI9							0.0078 + 0.0005	.0196					10	UNCH
APRIL APRI	9000						0.0033 + 0.0002	.0086						
Control Cont	APR1	9					0 2724 . 0 0157	6522					200	IINCU
1.7700	2600						0.2436 + 0.0150	.6130					27	UNCH
2800	2700						0.1922 + 0.0131	.5319					954	UNCH
2850	2800						0.1494 + 0.0114	.4513					1600	UNCH
2890 0.1100B/ 0.1100B/ 0.11177 + 0.0098 3825 593 UNCH 2950 0.1100B/ 0.1145 + 0.0096 3751 593 UNCH 2950 1.00 UNCH 2	2850						0.1310 + 0.0105	.4125					330	UNCH
2950	2890						0.1177 + 0.0098	.3825					20	UNCH
0.0918 + 0.0083 3192 19	2950						0.0998 + 0.0088	.3396					125	UNCH
3010	2980						0.0918 + 0.0083	.3192					19	UNCH
3070	3010						0.0843 + 0.0078	.2996					2	UNCH
3100	3070						0.0709 + 0.0069	.2626					20	UNCH
3200 1650 UNCH 3250 0.0482 + 0.0052 .1938 1650 UNCH 3300 0.0415 + 0.0046 .1716 1159 UNCH 3300 0.0356 + 0.0040 .1514 200 UNCH 3350 0.0 0.0356 + 0.0036 .1334 200 UNCH 3400 0.0 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200 0.020	3100						0.0649 + 0.0065	.2453					205	UNCH
\$\frac{3300}{3350} 0.0356 + 0.0040 .1514 200 UNCH 3450 0.0262 + 0.0036 .1334 100 UNCH 3450 0.0262 + 0.0032 .1171 100 UNCH 3450 100 UN	3200						0.0482 + 0.0052	.1938					1650	UNCH
3400 100 UNCH 3450 0.0262 + 0.0032 .1171 100 UNCH 3450 0.0225 + 0.0028 .1029 31 UNCH 3500 0.0200 0.0200/0.0200 0.0200/0.0200 0.0193 + 0.0024 0.0901 2 8575 UNCH 3750 0.0994 + 0.0013 .0475 2 8575 UNCH 4000 0.0994 + 0.0013 .0475 920 UNCH 4000 0.0094 + 0.0013 .0475 1515 UNCH 4250 0.0033 + 0.0003 .0173 1515 UNCH 4250 1515 UNCH 4250 10.0033 + 0.0003 .0173 1515 UNCH 1516 UNCH 1516 UNCH 1516 UNCH 1516 UNCH 1517 UNCH 1517 UNCH 1517 UNCH 1517 UNCH 1518	3300						0.0356 + 0.0040	.1514					200	UNCH
3500 0.0200 0.0200 0.0200/0.0200 0.0200/0.0200 0.0193 + 0.0024 .0901 2 8575 UNCH 3750 0.0094 + 0.0013 .0475 920 UNCH 4000 0.051 + 0.0066 0.0268 1515 UNCH 4250 0.0051 + 0.0003 .0173 1515 UNCH 4250 1638 UNCH THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS	3350 3400						0.0262 + 0.0032	.1171					100	UNCH
4000 0.0051 + 0.0006 .0268 1515 UNCH 4250 0.0033 + 0.0003 .0173 1638 UNCH THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS	3500	0.0200	0.0200	0.0200/0.0200	0.0200/0.0200		0.0193 + 0.0024	.0901			2		8575	UNCH
THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS	4000						0.0051 + 0.0006	.0268					1515	UNCH
	THE	INFORMATIO	N CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	VENIENCE OF THE	USER AND IS FURNISHED N	VITHOUT RE	SPONSI	BILITY FO	OR ACCURA			

 ${\it CME\ Group,\ Inc.}$





FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL I	PRICE IS THE F	PREVIOUS DAY'S	SETTLEMENT PRI	CE.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN EREST
LN CAL APR19	.L	NYMEX NATURAL	GAS (EURO) OPTS										
4500 4650						0.0025 + 0.0002 0.0022 + 0.0002	.0128 .0110					161 70	UNCH UNCH
4750 5000						0.0020 + 0.0002 0.0016 + 0.0001	.0099					143 751	UNCH
5150 5250						0.0014 + 0.0001 0.0013 + 0.0001	.0067					71 121	UNCH
5500 6000						0.0011 + 0.0001 $0.0007 + 0.0001$.0051					50 543 84	UNCH
6500 7000 7500						$0.0005 + 0.0001 \\ 0.0004 + 0.0001 \\ 0.0003 + 0.0001$.0022 .0017 .0013					44 44	UNCH UNCH UNCH
9000 TOTAL						0.0001 UNCH	.0004			2	150	449 36381	UNCH
MAY19 2600						0.2145 + 0.0140	. 5827					609	UNCH
2650 2700						0.1894 + 0.0133 0.1664 + 0.0124 0.1457 + 0.0115	.5401					259 620 400	UNCH
2750 2800 2830						0.1437 + 0.0113 $0.1270 + 0.0106$ $0.1167 + 0.0100$.4558 .4151 .3913					1031 30	UNCH UNCH UNCH
2850 2860						0.1103 + 0.0097 0.1072 + 0.0096	.3759					330 22	UNCH
2890 2900						0.0983 + 0.0089 0.0955 + 0.0088	.3460					20 370	UNCH
2950 2970						$ \begin{array}{rrrr} 0.0826 & + & 0.0080 \\ 0.0779 & + & 0.0077 \end{array} $.3039					125 20	UNCH UNCH
2980 3000						0.0756 + 0.0075 0.0712 + 0.0072	.2842 .2715				150	19 7070	UNCH UNCH
3010 3050						$0.0691 + 0.0070 \\ 0.0612 + 0.0065$.2653 .2414					2	UNCH
3070 3080						0.0575 + 0.0062 0.0558 + 0.0061	.2299					20 2	UNCH
3100 3150						0.0524 + 0.0058 0.0448 + 0.0052 0.0324 + 0.0040	.2137 .1885 1448					205 6 885	UNCH
3250 3300 3350						0.0324 + 0.0040 0.0275 + 0.0035 0.0233 + 0.0030	.1448 .1263 .1099					200 100	UNCH UNCH UNCH
3350 3450 3500						0.0233 + 0.0030 0.0170 + 0.0023 0.0146 + 0.0020	.0837					30 1929	UNCH UNCH
3750 4000						0.0071 + 0.0009 0.0040 + 0.0004	.0381					920 2410	UNCH
4250 4500						0.0028 + 0.0003 0.0022 + 0.0001	.0151					229 125	UNCH
4650 4750						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0097					55 125	UNCH UNCH
5000 5150						$ \begin{array}{rrrr} 0.0015 & + & 0.0001 \\ 0.0013 & + & 0.0001 \end{array} $.0073					730 50	UNCH UNCH
5250 5500						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0058					100 25	UNCH UNCH
6000 6500						0.0007 + 0.0001 0.0005 UNCH	.0032					516 50	UNCH
7000 7500						0.0004 + 0.0001 0.0003 + 0.0001	.0017					10 10	UNCH
9000 TOTAL						0.0001 UNCH	.0004				150	400 20061	UNCH
JUN19 2550						0.2662 + 0.0141	.6425					200	UNCH
2600 2650						0.2379 + 0.0135 0.2117 + 0.0128	.6034					125 362	UNCH
2700 2750						$ \begin{array}{rrrr} 0.1876 & + & 0.0121 \\ 0.1656 & + & 0.0113 \end{array} $.5225 .4822					620 418	UNCH UNCH
2800 2830						$\begin{array}{cccc} 0.1457 & + & 0.0105 \\ 0.1347 & + & 0.0100 \end{array}$.4427 .4195					750 _30	UNCH UNCH
2850 2860						0.1277 + 0.0097 0.1243 + 0.0095	.4043					553 22	UNCH UNCH
2890 2900						0.1147 + 0.0090 $0.1116 + 0.0088$.3747					20 145	UNCH
2950 2970						0.0974 + 0.0080 0.0922 + 0.0077	.3327					125 20	UNCH
2980 3000						0.0897 + 0.0076 0.0848 + 0.0072 0.0825 + 0.0072	.3128 .2999 .2937				150	19 3290 2	UNCH UNCH UNCH
3010 3050 3070						0.0736 + 0.0065 0.0695 + 0.0063	.2693					2 20	UNCH
3080 3100						0.0676 + 0.0062 0.0638 + 0.0060	.2521					205	UNCH
3150 3250						0.0551 + 0.0054 0.0409 + 0.0043	.2147					6 881	UNCH
3300 3350						$ \begin{array}{rrrr} 0.0351 & + & 0.0037 \\ 0.0301 & + & 0.0033 \end{array} $.1490 .1311					200 100	UNCH UNCH
3450 3500						0.0222 + 0.0025 0.0191 + 0.0022	.1013 .0890					30 1729	UNCH UNCH
3750 4000						0.0094 + 0.0011 0.0052 + 0.0005	.0473					2260 1225	UNCH
4250 4500 4650						0.0034 + 0.0003 0.0027 + 0.0002 0.0024 + 0.0002	.0177 .0136 .0118					229 127 55	UNCH UNCH UNCH
4650 4750 5000						0.0024 + 0.0002 $0.0022 + 0.0001$ $0.0019 + 0.0002$.0118					125 730	UNCH UNCH
5150 5250						0.0017 + 0.0001 0.0016 + 0.0001	.0079					50 100	UNCH
5500 5750						0.0013 + 0.0001 0.0011 + 0.0001	.0059					25 13	UNCH
6000 6500						0.0009 UNCH 0.0007 UNCH	.0040					515 50	UNCH UNCH
7000 7500						0.0005 UNCH 0.0004 UNCH	.0021					10 10	UNCH
9000 TOTAL						0.0002 UNCH	.0008				150	400 15800	UNCH
JUL19 2650						0.2312 + 0.0118	.5875					55	UNCH
2700 2750						0.2058 + 0.0110 0.1826 + 0.0103	.5478					729 418	UNCH
2800 2850						$ \begin{array}{rrrr} 0.1613 & + & 0.0095 \\ 0.1421 & + & 0.0087 \end{array} $.4685 .4301					750 330	UNCH
2860 2890						$ \begin{array}{r} 0.1385 + 0.0086 \\ 0.1281 + 0.0081 \end{array} $.4226 .4002					22 20	UNCH UNCH
2900 2950						0.1248 + 0.0080 0.1093 + 0.0072	.3929					145 125	UNCH
2970 2980						0.1036 + 0.0069 0.1008 + 0.0067	.3437				150	20 19	UNCH
3000 3010						0.0956 + 0.0065 0.0930 + 0.0063	.3238 .3173 .2922				150 	3290 2 27	UNCH
3050 3070 3080						0.0834 + 0.0058 0.0789 + 0.0055 0.0768 + 0.0055	.2922 .2801 .2743					20 20	UNCH UNCH UNCH
3080 3100 3150						0.0768 + 0.0033 0.0726 + 0.0052 0.0630 + 0.0047	.2627					230 6	UNCH UNCH
3250 3300						0.0472 + 0.0037 0.0407 + 0.0033	.1869					881 200	UNCH
3350 3450						$ \begin{array}{rrrr} 0.0351 & + & 0.0029 \\ 0.0260 & + & 0.0022 \end{array} $.1468 .1142					100 30	UNCH
3500 3750						$0.0224 + 0.0019 \\ 0.0111 + 0.0009$.1005 .0541					2103 920	UNCH UNCH
		N CONTAINED IN T				SER AND IS FURNISHED W					CY OR CO	NTENT. IT	IS

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2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin





FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	HE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.												
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EX DELTA CI	ER OPEN SES OUTCRY VOLUME	GLOBEX® PNT VOLUME VOLUME	OPEN INTEREST			
LN CAL	LL.	NYMEX NATURAL	GAS (EURO) OPTS	•									
4000 4250						$ \begin{array}{rrrr} 0.0061 & + & 0.0005 \\ 0.0039 & + & 0.0003 \end{array} $.0199 -			1225 UNCH 229 UNCH			
4500 4650						0.0029 + 0.0001 0.0026 + 0.0001	.0127 -			125 UNCH 55 UNCH			
4750 5000						$\begin{array}{cccc} 0.0024 & + & 0.0001 \\ 0.0021 & + & 0.0001 \end{array}$.0098 -			125 UNCH 730 UNCH			
5150 5250						0.0019 + 0.0001 0.0018 + 0.0001	.0081 -			50 UNCH 100 UNCH			
5500 5750						0.0015 + 0.0001 0.0013 + 0.0001	.0057 -			25 UNCH 13 UNCH			
6000 6500						0.0011 UNCH 0.0008 UNCH	.0033 -			513 UNCH 50 UNCH 10 UNCH			
7000 7500						0.0006 UNCH 0.0005 UNCH 0.0003 UNCH	.0020 -			10 UNCH 10 UNCH 400 UNCH			
9000 TOTAL						0.0005 GNCII	.0011		150	14104			
AUG19 2650						0.2408 + 0.0123	.5924 -			55 UNCH			
2700 2750						0.2153 + 0.0116 0.1918 + 0.0109			100 	729 + 80 768 UNCH			
2800 2850						0.1703 + 0.0102 0.1507 + 0.0094	.4394 -			750 UNCH 330 UNCH			
2860 2890						0.1471 + 0.0093 0.1365 + 0.0089	.4103 -			22 UNCH 20 UNCH			
2900 2950						0.1331 + 0.0087 0.1171 + 0.0079	.3682 -			145 UNCH 125 UNCH			
2970 2980						0.1112 + 0.0075 0.1084 + 0.0074	.3481 -		 150	20 UNCH 19 UNCH			
3000 3010						0.1030 + 0.0072 0.1003 + 0.0070 0.0904 + 0.0065	.3287 -		150 	3290 UNCH 2 UNCH 27 UNCH			
3050 3070						0.0857 + 0.0062 0.0835 + 0.0061	.2920 -			27 UNCH 20 UNCH 2 UNCH			
3080 3100 3150						0.0792 + 0.0059 0.0691 + 0.0053	.2748 -			230 UNCH 6 UNCH			
3250 3300						0.0524 + 0.0033 0.0524 + 0.0043 0.0455 + 0.0038	.1987 -			881 UNCH 200 UNCH			
3350 3500 3500						0.0395 + 0.0034 0.0257 + 0.0024	.1580 -			100 UNCH 1753 UNCH			
3750 4000						0.0130 + 0.0012 0.0072 + 0.0007	.0607 - .0352 -			920 UNCH 1225 UNCH			
4250 4500						$0.0045 + 0.0004 \\ 0.0033 + 0.0003$.0223 -			229 UNCH 125 UNCH			
4650 4750						$0.0029 + 0.0002 \\ 0.0028 + 0.0002$.0255			55 UNCH 125 UNCH			
5000 5150						0.0024 + 0.0002 0.0022 + 0.0002	.0098 -			730 UNCH 50 UNCH			
5250 5500						$ \begin{array}{r} 0.0021 + 0.0002 \\ 0.0018 + 0.0001 \end{array} $.0078 -			100 UNCH 25 UNCH			
5750 6000						0.0015 + 0.0001 0.0013 UNCH	.0054 -			13 UNCH 512 UNCH			
6500 7000						0.0010 UNCH 0.0008 UNCH	.0032 -			50 UNCH 10 UNCH			
7500 9000						0.0006 UNCH 0.0004 + 0.0001	.0023			10 UNCH 400 UNCH			
TOTAL SEP19									250	14073 + 80			
2650 2700						$0.2391 + 0.0130 \\ 0.2144 + 0.0124$				50 UNCH 656 UNCH			
2750 2800						0.1916 + 0.0118 0.1707 + 0.0111	.5061 -			418 UNCH 750 UNCH			
2850 2860						0.1518 + 0.0104 0.1482 + 0.0102	.4333 -			330 UNCH 22 UNCH			
2890 2900						0.1378 + 0.0097 0.1345 + 0.0096	.4052 -			20 UNCH 145 UNCH			
2950 2970						$ \begin{array}{rrrr} 0.1189 & + & 0.0088 \\ 0.1132 & + & 0.0085 \end{array} $				125 UNCH 20 UNCH			
2980 3000						$ \begin{array}{r} 0.1104 + 0.0083 \\ 0.1050 + 0.0080 \end{array} $.3331 -		150	19 UNCH 3290 UNCH			
3010 3050						0.1025 + 0.0079 0.0927 + 0.0074	.3032 -			2 UNCH 27 UNCH			
3070 3080						0.0881 + 0.0071 0.0859 + 0.0070	.2862 -			20 UNCH 2 UNCH			
3100 3150						0.0816 + 0.0068 0.0716 + 0.0061	.2487 -			230 UNCH 6 UNCH			
3250 3300						0.0549 + 0.0050 0.0480 + 0.0046 0.0419 + 0.0041	.1809 -			881 UNCH 200 UNCH 100 UNCH			
3350 3500						0.0278 + 0.0041 0.0278 + 0.0031 0.0144 + 0.0016	.1149 -			1753 UNCH 920 UNCH			
3750 4000 4250						0.0080 + 0.0009 0.0050 + 0.0005	.0379 -			1225 UNCH 229 UNCH			
4500 4650						0.0036 + 0.0004 0.0031 + 0.0003	.0172 -			125 UNCH 55 UNCH			
4750 5000						$0.0029 + 0.0002 \\ 0.0026 + 0.0003$.0135 - .0116 -			125 UNCH 730 UNCH			
5150 5250						0.0024 + 0.0003 0.0022 + 0.0002	.0096 -			50 UNCH 100 UNCH			
5500 5750						0.0020 + 0.0002 0.0017 + 0.0001	.0071 -			25 UNCH 13 UNCH			
6000 6500						0.0015 + 0.0001 0.0012 + 0.0001	.0047 -			511 UNCH 50 UNCH			
7000 7500						0.0009 UNCH 0.0008 + 0.0001	.0030 -			10 UNCH 10 UNCH			
9000 TOTAL						0.0004 UNCH	.0014 -		150	400 UNCH 13644			
OCT19 2650						0.2515 + 0.0128	.5946 -			50 UNCH			
2700 2750						0.2260 + 0.0120 0.2026 + 0.0114	.5578 -			817 UNCH 418 UNCH			
2800 2850						0.1810 + 0.0107 0.1612 + 0.0098	.4840 -			750 UNCH 355 UNCH			
2860 2890						0.1575 + 0.0097 0.1468 + 0.0093	.4410 - .4200 -			22 UNCH 20 UNCH			
2900 2950						$ \begin{array}{rrrr} 0.1433 & + & 0.0091 \\ 0.1270 & + & 0.0083 \end{array} $.4131 - .3794 -			245 UNCH 125 UNCH			
2970 2980						$ \begin{array}{rrrr} 0.1210 & + & 0.0081 \\ 0.1181 & + & 0.0079 \end{array} $.3664 - .3600 -			20 UNCH 19 UNCH			
3000 3010						0.1124 + 0.0076 0.1097 + 0.0074	.3411 -		150 	3315 UNCH 2 UNCH			
3050 3070						0.0995 + 0.0070 0.0946 + 0.0066	.3053 -			2 UNCH 20 UNCH			
3080 3100						0.0923 + 0.0065 0.0878 + 0.0063	.2884 -			2 UNCH 205 UNCH			
3150 3250						0.0773 + 0.0057 0.0596 + 0.0047	.2132 -			6 UNCH 881 UNCH			
3300 3350						0.0523 + 0.0043 0.0457 + 0.0038	.1721 -			200 UNCH 100 UNCH			
3500 3750						0.0305 + 0.0027 0.0159 + 0.0014 0.0089 + 0.0008	.0700 -			1753 UNCH 920 UNCH			
4000 4250 4500						0.0089 + 0.0008 0.0055 + 0.0004 0.0039 + 0.0003	.0261 -			1460 UNCH 229 UNCH 125 UNCH			
4500 4650						0.0039 + 0.0003				55 UNCH			
						SER AND IS FURNISHED W				NTENT. IT IS			

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin





FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

NY CALL OCT19 4750	0.002 0.002 0.002 0.002 0.001 0.001 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00	1 + 0.0001	.0143 .0120 .0109 .0103 .0068 .0051 .0041 .0033 .0018 .5600 .5244 .4891 .4826 .4206 .4073 .4077 .3877 .3259 .3438 .3337 .3260 .2975 .2457 .2457 .2255 .1474 .0860 .0510 .0510 .0510 .0510 .0660 .0166 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036	VOLUME	150 150 150 150 150 150 150 150 150 150	125 730 500 100 25 510 500 100 400 14126 50 700 345 22 20 35 125 20 125 6 889 200 1788 1995 840 229 125 510 100 400 11639 - 700 345 22 20 400 11639 - 700 345 22 20 35 125 20 10 400 11639 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
4750	0.002 0.002 0.002 0.002 0.001 0.001 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.00	7 + 0.0001 6 + 0.0001 7 + 0.0001 8 + 0.0001 9 + 0.0001 1 + 0.0001 1 + 0.0001 1 + 0.0001 1 + 0.0088 1 + 0.0088 1 + 0.0081 1 + 0.0089 1 + 0.0069 1 + 0.0069 1 + 0.0069 1 + 0.0055 2 + 0.0055 3 + 0.0055 3 + 0.0047 4 + 0.0047 7 + 0.0045 8 + 0.0047 9 + 0.0049 1 + 0.0013 1 + 0.0001 1 + 0.0013 1 + 0.0001 1 + 0.0001 2 + 0.0001 3 + 0.0001 4 + 0.0001 5 + 0.0001 6 + 0.0001 6 + 0.0001 7 + 0.0001 8 + 0.0001 8 + 0.0001 9 + 0.0001 1 + 0.0001 1 + 0.0001 1 + 0.0001 2 + 0.0001 3 + 0.0001 4 + 0.0001 6 + 0.0001 6 + 0.0001 1 + 0.0001 1 + 0.0001 1 + 0.0001 2 + 0.0001 3 + 0.0001 4 + 0.0001 6 + 0.0001 6 + 0.0001 6 + 0.0001 7 + 0.0001 8 + 0.0001 9 + 0.0001 1 + 0.0006 1 + 0.0069 1 + 0.0069	.0109 .0109 .0103 .0088 .0068 .0051 .0041 .0033 .0018 .5600 .5244 .4891 .4822 .4614 .4545 .4206 .4073 .3857 .3260 .2975 .2457 .2225 .1474 .0860 .0510 .0311 .0201 .0107 .0013 .0016 .0017 .0013 .0016 .0017 .0013 .0004		150 150 150 150 150 150 150 150	730 50 100 25 510 50 10 10 400 14126 50 700 345 22 20 35 125 20 19 3395 - 2 2 15 6 889 229 155 55 125 55 125 55 125 55 125 55 125 55 125 50 100 400 11639 - 700 345 22 20 19 2850 2 20 20 21 15	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
\$2550	0.002 - 0.001 - 0.001 - 0.001 - 0.0005 - 0.0005 - 0.0005 - 0.2361 - 0.1961 - 0.1452 - 0.1452 - 0.1452 - 0.1352 - 0.120 - 0.106 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006 - 0.006	+ 0.0001	.0103 .0088 .0068 .0051 .0041 .0033 .0018 .5600 .5244 .4891 .4824 .4614 .4545 .4206 .4073 .4077 .3877 .3872 .2975 .1474 .0860 .0510 .0510 .0111 .0160 .0131 .0160 .0131 .0160 .017 .0099 .0084 .0075 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096 .0096		150 150 150 150 150 150 150 150	100 25 510 100 100 1400 14126 50 700 345 22 20 35 125 20 21 15 6 889 925 22 20 1788 995 840 229 125 55 511 50 100 400 400 11639 -	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
66000	- 0.001 - 0.001 - 0.0005 - 0.0005 - 0.2361 - 0.2127 - 0.1911 - 0.1526 - 0.174 - 0.1357 - 0.1456 - 0.1456 - 0.1466 - 0.0016 - 0.0026 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000	7 + 0.001 1 UNCH 1 + 0.0088 7 + 0.0081 1 + 0.0088 7 + 0.0081 2 + 0.0081 3 + 0.0073 6 + 0.0067 6 + 0.0067 6 + 0.0055 7 + 0.0055 7 + 0.0053 8 + 0.0045 9 + 0.0045 1 + 0.0045 1 + 0.0039 1 + 0.0045 1 + 0.0039 1 + 0.0039 1 + 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001	.0061 .0061 .0041 .0033 .0018 .5600 .5244 .4891 .4822 .4614 .4545 .4206 .4077 .3877 .3260 .4077 .38559 .3438 .3377 .3260 .0510 .0510 .0510 .0510 .0510 .0099 .0084 .0075 .0099 .0084 .0075 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099 .0099		150 150 150 150 150 150 150 150 150	510 50 10 10 400 14126 50 700 345 22 20 20 2 15 6 889 200 1788 995 840 229 125 511 50 100 25 5125 125 125 126 127 128 129 129 129 129 129 129 129 129	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
75000	- 0.001 - 0.236 - 0.236 - 0.1212 - 0.186 - 0.174 - 0.152 - 0.145 - 0.145 - 0.145 - 0.132 - 0.120 - 0.106 - 0.001 - 0.001 - 0.001 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.002 - 0.003 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.004 - 0.0	1 + 0.0001	.0041 .0033 .0018 .5600 .5244 .4891 .4261 .4545 .4206 .3877 .3812 .3559 .3438 .3376 .2975 .2457 .2225 .1474 .0860 .0511 .0201 .0137 .0099 .0084 .0075 .0056 .0022 .0017 .0004		150 150 150 150 150 150 150 150	10 400 14126 50 700 345 22 20 19 3395 - 2 20 20 2 15 6 889 200 1788 840 229 125 511 50 100 25 459 50 100 11639 - 700 345 22 20 20 21 20 20 20 20 20 20 20 20 20 20	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
9000	- 0.0005 - 0.2361 - 0.1217 - 0.1916 - 0.174 - 0.1716 - 0.1456 - 0.1456 - 0.1355 - 0.1200 - 0.1200 - 0.1200 - 0.1200 - 0.1416 - 0.0733 - 0.0026 - 0.0021 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000 - 0.0000	The second of th	.0018 .5600 .5244 .4891 .4892 .4614 .4545 .4206 .4073 .4073 .3817 .3817 .3260 .2975 .2225 .1474 .0860 .0510 .0137 .0099 .0084 .0075 .0056 .0036 .0017 .0013 .0004		150 150 150 150 150 150 150	400 14126 50 700 345 22 20 35 125 20 19 3395 - 2 20 15 6 889 200 1788 89 200 1788 840 229 125 55 511 50 100 25 459 50 100 11639 - 700 345 22 20 35 125 20 20 215 20 20 215	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
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2850	0.1941 0.1869 0.1740 0.1711 0.1526 0.1452 0.1452 0.1452 0.1352 0.1352 0.1352 0.1203 0.1111 0.1061 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161 0.00161	0 + 0.0074 + 0.0073 0 + 0.0069 0 + 0.0067 0 + 0.0067 0 + 0.0067 0 + 0.0055 0 + 0.0055 0 + 0.0055 0 + 0.0055 0 + 0.0053 0 + 0.0044 0 + 0.0042 0 + 0.0042 0 + 0.0043 0 + 0.0001 0	.4891 .4892 .4614 .4545 .4206 .4073 .4007 .3877 .3260 .2975 .2457 .2257 .2457 .2257 .0860 .0511 .0160 .0137 .00137 .0056 .0036 .0075 .0056 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095 .0095		150 150 150 150	345 22 20 35 125 20 19 3395 - 2 20 20 15 6 889 200 1788 995 840 229 125 55 125 55 115 60 100 100 215 459 50 100 11639 - 22 20 25 459 20 20 20 20 20 20 20 20 20 20 20 20 20	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2890	- 0.174 - 0.1716 - 0.1526 - 0.14526 - 0.14526 - 0.13526 - 0.13526 - 0.1202 - 0.10636 - 0.00416 - 0.00646 - 0.00646 - 0.006466 - 0.0064666666666666666666666666666666666	0 + 0.0069 + 0.0067 5 + 0.0067 6 + 0.0057 7 + 0.0055 8 + 0.0047 7 + 0.0045 9 + 0.0042 1 + 0.0042 1 + 0.0037 1 + 0.0042 1 + 0.0037 1 + 0.0001 1 + 0.0001 1 - 0.0001 2 - 0.0001 1 - 0.0001 2 - 0.0001 3 - 0.0001 4 - 0.0001 5 - 0.0001 6 + 0.0098 6 + 0.0098 6 + 0.0098 7 + 0.0083 7 + 0.0083 7 + 0.0083 8 + 0.0079 1 + 0.0079 1 + 0.0066 1 + 0.0066 1 + 0.0069 1 + 0.0066 1 + 0.0069 1 + 0.0069	.4614 .4545 .4206 .4077 .3877 .3859 .3438 .33377 .3260 .2457 .2255 .1474 .0860 .0510 .0160 .0111 .0201 .0160 .0099 .0084 .0075 .0056 .0022 .0017 .0013 .0004		150	20 315 125 20 3395 - 2 2 20 20 1788 995 840 229 125 55 511 50 100 25 459 50 10 400 11639 - 70 345 22 20 35 125 20 21 25 25 20 20 21 25 20 20 20 20 20 20 20 20 20 20 20 20 20	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2950	. 0.1526 . 0.1456 . 0.1456 . 0.1476 . 0.1327 . 0.1207 . 0.0006 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.00000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.00000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.00000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.00000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.00000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.0000 . 0.000	5 + 0.0061 + 0.0058 2 + 0.0057 5 + 0.0055 6 + 0.0057 7 + 0.0045 9 + 0.0044 1 + 0.0042 1 + 0.0025 1 + 0.0029 1 + 0.0025 1 + 0.0033 1 + 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 2 - 0.0001 2 - 0.0001 3 - 0.0001 4 - 0.0001 5 - 0.0001 6 - 0.0001 8 - 0.0001 9 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 2 - 0.0001 3 - 0.0001 4 - 0.0001 6 - 0.0001 9 - 0.0001 1 - 0.0001 1 - 0.0001 1 - 0.0001 2 - 0.0001 3 - 0.0001 4 - 0.0001 6 - 0.0001 9 - 0.0001 1 - 0.0005 1 - 0.0005 1 - 0.0005 1 - 0.0006 1 - 0.0066 1 - 0.0066 1 - 0.0060 1 - 0.0060	.406 .4073 .4007 .3871 .3581 .3538 .3438 .3377 .3260 .0510 .0510 .0510 .0510 .0160 .0137 .0099 .0084 .0075 .0056 .0022 .0017 .0013 .0004		150	125 20 19 3395 - 2 2 20 2 15 6 889 200 1788 995 840 229 125 511 50 100 20 459 50 10 400 11639 - 700 345 22 20 20 21 25 459 20 20 20 20 20 20 20 20 20 20 20 20 20	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2580	. 0.1422 . 0.1353 . 0.1323 . 0.1323 . 0.1143 . 0.1114 . 0.1063 . 0.094 . 0.039 . 0.0020 . 0.001 . 0.001 . 0.003 . 0.002 . 0.001 . 0.003 . 0.002 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.003 . 0.00	2 + 0.0057 7 + 0.0055 6 + 0.0053 7 + 0.0044 9 + 0.0045 10 + 0.0045 11 + 0.0029 12 + 0.0025 13 + 0.0025 14 + 0.0025 15 + 0.0035 16 + 0.0035 17 + 0.0001 18 + 0.0001 19 - 0.0001 10 - 0.0001 10 - 0.0001 11 - 0.0001 12 - 0.0001 13 - 0.0001 14 - 0.0001 15 - 0.0001 16 - 0.0001 17 - 0.0001 18 - 0.0001 19 - 0.0001 10 - 0.0006 10 - 0.0006 10 - 0.0005 10 - 0.000	.4007 .3812 .3539 .3438 .3377 .3260 .2975 .2457 .2225 .1474 .0860 .0511 .0201 .0160 .0137 .0094 .0075 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036 .0036		150 150 150 150	19 3395 - 2 2 2 2 2 15 6 889 200 1788 840 229 125 551 100 100 25 459 50 100 11639 - 700 345 22 20 35 125 20 19 2850 2 2 20 2 15	UNCH SO UNCH UNCH
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6000	- 0.0006 - 0.0001 - 0.0003 - 0.0003 - 0.0003 - 0.2890 - 0.2641 - 0.2451 - 0.2451 - 0.2412 - 0.2911 - 0.1996 - 0.1996 - 0.1946 - 0.1744 - 0.1744 - 0.1744 - 0.1744 - 0.1746 - 0.1644 - 0.1746 - 0.1646 - 0.1667 - 0.1107 - 0.1687 - 0.1107 - 0.0733 - 0.0433 - 0.0436 - 0.0166	0 + 0.0106 2 + 0.0098 3 + 0.0098 5 + 0.0098 6 + 0.0098 7 + 0.0098 9 + 0.0098 1 + 0.0085 1 + 0.0085 1 + 0.0079 1 + 0.0079 1 + 0.0079 1 + 0.0079 1 + 0.0079 1 + 0.0079 1 + 0.0070 1 + 0.0069 1 + 0.0069	.0036 .0022 .0017 .0013 .0004 .6085 .5757 .5690 .5492 .5426 .5101 .4973 .4909 .4783 .4722 .4350 .4289		 150	459 50 10 400 11639 - 700 345 22 20 35 125 20 19 2850 2 2 20 2 20 15	UNCH UNCH UNCH UNCH 50 UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
7000	- 0.000 - 0.000 - 0.289 - 0.264 - 0.259 - 0.245 - 0.245 - 0.2198 - 0.2198 - 0.199 - 0.196 - 0.181 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.174 - 0.	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH	.0017 .0013 .0004 .6085 .5757 .5690 .5492 .5426 .5101 .4973 .4720 .4472 .4350 .4289		150	10 400 11639 - 700 345 22 20 35 125 20 19 2850 2 2 20	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
9000	- 0.0001 - 0.2890 - 0.2641 - 0.259 - 0.2412 - 0.2117 - 0.2077 - 0.1961 - 0.1816 - 0.1740 - 0.1848 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1648 - 0.1216 - 0.1006	UNCH 0 + 0.0106 2 + 0.0098 5 + 0.0098 7 + 0.0093 8 + 0.0085 7 + 0.0085 9 + 0.0087 9 + 0.0079 1 + 0.0073 1 + 0.0073 1 + 0.0073 1 + 0.0066 1 + 0.0066 1 + 0.0066 1 + 0.0050	.6085 .5757 .5690 .5492 .5426 .5101 .4973 .4783 .4720 .4472 .4350 .4289		150	400 11639 - 700 345 22 20 35 125 20 19 2850 2 2 20 2	UNCH 50 UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
DEC19 2800 2850 2860 2860 2950 2950 2950 2950 2970 2980	- 0.264 - 0.259 - 0.2415 - 0.2116 - 0.219 - 0.199 - 0.196 - 0.1816 - 0.1746 - 0.1746 - 0.1646 - 0.1488 - 0.1486 - 0.1646 - 0.1486 - 0.1486 - 0.1646 - 0.1486 - 0.1646 - 0.0733 - 0.0733 - 0.0437 - 0.0266 - 0.0166	2 + 0.0098 5 + 0.0098 6 + 0.0093 2 + 0.0093 2 + 0.0085 7 + 0.0082 0 + 0.0079 4 + 0.0073 4 + 0.0073 4 + 0.0070 1 + 0.0060 1 + 0.0060 0 + 0.0050	.5757 .5690 .5492 .5426 .5101 .4973 .4909 .4783 .4720 .4472 .4350 .4289		 150	700 345 22 20 35 125 20 19 2850 2 2 20 215	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2800	- 0.264 - 0.259 - 0.2415 - 0.2116 - 0.219 - 0.199 - 0.196 - 0.1816 - 0.1746 - 0.1746 - 0.1646 - 0.1488 - 0.1486 - 0.1646 - 0.1486 - 0.1486 - 0.1646 - 0.1486 - 0.1646 - 0.0733 - 0.0733 - 0.0437 - 0.0266 - 0.0166	2 + 0.0098 5 + 0.0098 6 + 0.0093 2 + 0.0093 2 + 0.0085 7 + 0.0082 0 + 0.0079 4 + 0.0073 4 + 0.0073 4 + 0.0070 1 + 0.0060 1 + 0.0060 0 + 0.0050	.5757 .5690 .5492 .5426 .5101 .4973 .4909 .4783 .4720 .4472 .4350 .4289		 150	345 22 20 35 125 20 19 2850 2 2 20 2	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2886	- 0.259 - 0.245 - 0.211 - 0.217 - 0.199 - 0.196 - 0.174 - 0.174 - 0.174 - 0.164 - 0.1485 - 0.121 - 0.073 - 0.073 - 0.073 - 0.073 - 0.073	5 + 0.0098 7 + 0.0093 2 + 0.0092 8 + 0.0085 7 + 0.0082 9 + 0.0078 1 + 0.0073 1 + 0.0073 1 + 0.0069 0 + 0.0069 0 + 0.0060 0 + 0.0050	.5690 .5492 .5426 .5101 .4973 .4909 .4783 .4720 .4472 .4350 .4289	 	 150	22 20 35 125 20 19 2850 2 2 20 2	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2950	0.2412 0.2198 0.2077 0.2077 0.1999 0.1961 0.1744 0.1744 0.1644 0.1485 0.1216 0.0733 0.0733 0.0265 0.0166	2 + 0.0092 7 + 0.0083 7 + 0.0083 7 + 0.0079 1 + 0.0079 1 + 0.0079 1 + 0.0070 0 + 0.0060 0 + 0.0060 0 + 0.0060	.5426 .5101 .4973 .4909 .4783 .4720 .4472 .4350 .4289	 	 150 	35 125 20 19 2850 2 2 20 2	UNCH UNCH UNCH UNCH UNCH UNCH UNCH UNCH
2970	- 0.211 0.207 - 0.1999 - 0.181 - 0.174 - 0.174 - 0.164 - 0.148 - 0.148 - 0.148 - 0.148 - 0.073 - 0.073 - 0.043 - 0.066 - 0.0166	7 + 0.0083 7 + 0.0082 9 + 0.0079 1 + 0.0078 4 + 0.0073 1 + 0.0070 0 + 0.0069 1 + 0.0066 0 + 0.0060 0 + 0.0050	.4973 .4909 .4783 .4720 .4472 .4350 .4289	 	 150 	20 19 2850 2 2 20 2	UNCH UNCH UNCH UNCH UNCH UNCH UNCH
3000	0.1999 - 0.1961 - 0.1814 - 0.174 - 0.1644 - 0.148 - 0.1219 - 0.073 - 0.043 - 0.026 - 0.0106	9 + 0.0079 L + 0.0078 4 + 0.0073 4 + 0.0070 9 + 0.0060 9 + 0.0060 9 + 0.0050	.4783 .4720 .4472 .4350 .4289	 	 150 	2850 2 2 20 2 15	UNCH UNCH UNCH UNCH UNCH
3050	- 0.181 - 0.174 - 0.171 - 0.148 - 0.121 - 0.100 - 0.073 - 0.043 - 0.065 - 0.0166	+ + 0.0073 + + 0.0070 0 + 0.0069 + + 0.0066 0 + 0.0060 0 + 0.0050	.4472 .4350 .4289	 	 	2 15	UNCH UNCH UNCH
3080	- 0.171 - 0.164 - 0.148 - 0.121 - 0.110 - 0.073 - 0.043 - 0.026 - 0.016	0 + 0.0069 4 + 0.0066 9 + 0.0060 9 + 0.0050	.4289			2 15	UNCH
3150	- 0.148 0.1212 - 0.1107 - 0.073 - 0.043 - 0.026 - 0.0106	+ 0.0060 + 0.0050	41/0	 			
3300	- 0.1107 - 0.0732 - 0.0437 - 0.0265 - 0.0106	+ 0.0035	.3881	 	 	714	UNCH
3750	- 0.0437 - 0.0265 - 0.0165 - 0.0106		.3092	 	 	200 3148	UNCH
4250	- 0.0106	7 + 0.0017	.1457	 	 	1145 5330	UNCH
4650		+ 0.0004	.0618 .0411	 	 	229 125	UNCH UNCH
5000	- 0.0082	+ 0.0003	.0350	 	 	242 55	UNCH
\$250	- 0.0048	3 + 0.0002	.0279	 	 	125 399	UNCH
6000	- 0.0034	+ 0.0001	.0156	 	 	50 100	UNCH
7000	- 0.0014	l UNCH	.0103	 	 	25 458	UNCH
9000	- 0.0005	- 0.0001	.0034	 	 	50 10	UNCH
JAN20 2730 2750 2760 2790 2800 2810			.0016 .0004	 	 150	10 400 16998	UNCH
2750 2760 2790 2800 2810					130	10330	
2760 2790 2800 2810	- 0.4059		.6950 .6841	 	 	11 45	UNCH UNCH
2800 2810	- 0.3842	+ 0.0087	.6814 .6642	 	 	10 11	UNCH UNCH
	- 0.3738	+ 0.0085	.6568 .6527	 	 	2 11	UNCH UNCH
2880	- 0.3537 - 0.3393	7 + 0.0080 8 + 0.0075	.6291 .6128	 	 	111 1	UNCH UNCH
2900 2910	- 0.3252	+ 0.0072	.6014 .5959	 	 	26 11	UNCH
2930 2940	- 0.3120	+ 0.0067	.5847 .5792	 	 	11 12	UNCH
2950 2960	- 0.3034	+ 0.0065	.5736	 	 	23 11	UNCH
3000 3150	- 0.2327	+ 0.0044	.5464 .4692 .4225	 	 	837 36 1405	UNCH UNCH UNCH
3500	- 0.1480	+ 0.0013	.3254	 	 	858 100	UNCH
3650 3700	- 0.1193	3 + 0.0005 3 + 0.0003	.2679	 	 	10 855	UNCH
4000 4250	- 0.0885	- 0.0002	.2032	 	 	560 4	UNCH
4450 4700	- 0.0585	- 0.0001	.1380	 	 	50 358	UNCH
4900 5000	- 0.0343	- 0.0001	.0868	 	 	294 125	UNCH
5150 5200	- 0.0251	- 0.0002 - 0.0001	.0661	 	 	25 75	UNCH
6000 TOTAL	0.0086	0.0001	.0255	 	 	32 5920	UNCH
FEB20	. 0.4225			 	 	11	UNCU
2750		0 0170	6602	 	 	11 45 10	UNCH UNCH UNCH
2760 2790 2800		5 + 0.0170 2 + 0.0169 0 + 0.0166	.6693 .6596	 	 	11 2	UNCH
2810 2850	- 0.4180 - 0.4031		.6596 .6560 .6408			11	
THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIEN ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL N	- 0.4180 - 0.4031 - 0.3983 - 0.3935	2 + 0.0169 0 + 0.0166 L + 0.0164	.6596 .6560	 		111	UNCH UNCH UNCH

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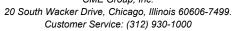


FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
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INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX	OPEN OUTCRY	GLOBEX	OPEN OUTCRY	OPEN OUTCRY	SETT.PRICE	EXI		GLOBEX®	PNT		OPEN
LN CAL	OPEN	OPEN RANGE	HIGH/LOW . GAS (EURO) OPT	HIGH/LOW	CLOSE RANGE	& PT.CHGE.	DELTA CIS	ES OUTCRY VOLUME		VOLUME	INT	EREST
FEB20 2880			. GAS (EURO) UPI			0.3614 + 0.0157	.5960				1	UNCH
2900 2910						0.3526 + 0.0154 0.3484 + 0.0154	.5863 .5813				26 11	UNCH UNCH
2930 2940						0.3399 + 0.0151 0.3358 + 0.0150	.5716 .5668				11 12	UNCH
2950 2960						0.3317 + 0.0149 0.3277 + 0.0149	.5620 .5572 5383				23 11	UNCH
3000 3150						0.3120 + 0.0145 0.2599 + 0.0130 0.2308 + 0.0120	.5383 .4712 .4303				837 36 1405	UNCH
3250 3500 3700						0.2308 + 0.0120 0.1748 + 0.0097 0.1438 + 0.0082	.3432				858 10	UNCH UNCH UNCH
3750 4000						0.1373 + 0.0079 0.1098 + 0.0066	.2774				855 560	UNCH
4250 4450						0.0900 + 0.0056 0.0770 + 0.0051	.1880 .1625				4 50	UNCH
5000 5150						0.0452 + 0.0038 0.0387 + 0.0034	.1021				125 25	UNCH
5200 6000						0.0367 + 0.0032 0.0157 + 0.0017	.0852 .0404				75 31	UNCH
6500 TOTAL						0.0093 + 0.0011	.0253				510 5677	UNCH
MAR20						0 2000 . 0 0157	6360				11	
2730 2750						0.3909 + 0.0157 0.3817 + 0.0157 0.3772 + 0.0157	.6260 .6163 .6115				11 45 10	UNCH UNCH UNCH
2760 2790						0.3638 + 0.0153 0.3595 + 0.0152	.5968				11 2	UNCH
2800 2810 2850						0.3552 + 0.0151 0.3384 + 0.0147	.5872				11 111	UNCH
2880 2900						0.3264 + 0.0144 0.3187 + 0.0143	.5539 .5446				1 26	UNCH
2910 2930						0.3148 + 0.0141 0.3074 + 0.0140	.5400 .5308				11 11	UNCH
2940 2950						0.3037 + 0.0139 0.3001 + 0.0138	.5263 .5218				12 23	UNCH
2960 3000						0.2965 + 0.0137 0.2826 + 0.0132	.5173 .4995				11 837	UNCH UNCH
3150 3250						0.2368 + 0.0117 0.2113 + 0.0107	.4373 .3998				36 1405	UNCH
3500 3700						0.1621 + 0.0084 0.1347 + 0.0071	.3208 .2721				858 10	UNCH
3750 4000						0.1289 + 0.0069 0.1039 + 0.0055	.2615 .2150				855 560	UNCH
4250 4450						0.0858 + 0.0047 0.0735 + 0.0045	.1796 .1556				50 125	UNCH
5000 5150						0.0435 + 0.0034 0.0374 + 0.0031 0.0356 + 0.0030	.0986 .0864 .0828				25 75	UNCH UNCH UNCH
5200 6000						0.0157 + 0.0015	.0403				30 5166	UNCH
TOTAL APR20											3100	
2700 2730						$ \begin{array}{rrrr} 0.1581 & + & 0.0015 \\ 0.1476 & + & 0.0010 \end{array} $.4398 .4194				35 11	UNCH UNCH
2750 2760						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.4060 .3994				70 10	UNCH UNCH
2790 2800						0.1283 UNCH 0.1252 - 0.0002	.3799 .3734				11 52	UNCH UNCH
2810 2850						0.1223 - 0.0003 0.1110 - 0.0010	.3671 .3422				11 111	UNCH UNCH
2880 2900						0.1031 - 0.0014 0.0981 - 0.0017	.3241 .3124				1 26	UNCH UNCH
2910 2930						0.0957 - 0.0018 0.0910 - 0.0020	.3067 .2954				11 11	UNCH
2940 2950						0.0887 - 0.0022 0.0865 - 0.0023	.2898				12 23	UNCH
2960 3000						0.0843 - 0.0024 0.0761 - 0.0028	.2788 .2579				11 646	UNCH
3150 3250						0.0511 - 0.0038 0.0387 - 0.0042 0.0192 - 0.0039	.1888 .1510			50	36 725 765	UNCH UNCH UNCH
3500 3700						0.0192 - 0.0039 0.0109 - 0.0032 0.0095 - 0.0030	.0839 .0513 .0454				10 880	UNCH
3750 4000 4250						0.0047 - 0.0021 0.0024 - 0.0013	.0242				810 90	UNCH
4450 5000						0.0015 - 0.0008 0.0004 - 0.0003	.0084				50 125	UNCH
5150 5200						0.0003 - 0.0002 0.0003 - 0.0001	.0018				25 75	UNCH
6000 TOTAL						0.0001 UNCH	.0006			50	29 4672	UNCH
MAY20						0 1364 . 0 0005	4114				25	UNCU
2700 2730						0.1364 + 0.0005 0.1266 UNCH 0.1204 - 0.0003	.4114 .3903				35 11 70	UNCH
2750 2760 2790						0.1204 - 0.0003 0.1173 - 0.0006 0.1086 - 0.0011	.3766 .3697 .3497				70 10 11	UNCH UNCH UNCH
2800 2810						0.1086 - 0.0011 0.1058 - 0.0013 0.1031 - 0.0014	.3431				2 11	UNCH
2850 2880						0.0928 - 0.0019 0.0856 - 0.0023	.3115				111 1	UNCH
2900 2910						0.0811 - 0.0026 0.0789 - 0.0027	.2816 .2759				26 11	UNCH
2930 2940						0.0747 - 0.0029 0.0727 - 0.0030	.2646 .2591				11 12	UNCH
2950 2960						0.0707 - 0.0031 0.0687 - 0.0032	.2537 .2482				23 11	UNCH UNCH
3000 3150						0.0614 - 0.0036 0.0397 - 0.0043	.2275 .1609				646 36	UNCH
3250 3500						0.0293 - 0.0045 0.0138 - 0.0037	.1255 .0661			50 	725 765	UNCH
3700 3750						0.0075 - 0.0029 0.0065 - 0.0026	.0387				10 880 810	UNCH
4000 4250						0.0031 - 0.0017 0.0016 - 0.0009	.0174 .0094				810 90 50	UNCH
4450 5000 5150						0.0009 - 0.0006 0.0002 - 0.0002 0.0002 - 0.0001	.0055 .0013 .0013				125 25	UNCH UNCH UNCH
5150 5200 6000						0.0002 - 0.0001 0.0002 - 0.0001 0.0001 UNCH	.0013				75 28	UNCH
TOTAL	•					J.JUJI UNCH	.5550		-	50	4621	ONCH
JUN20 2700						0.1467 + 0.0008	.4310				35	UNCH
2730 2750						0.1363 + 0.0002 0.1298 - 0.0001	.4096 .3956				11 70	UNCH
2760 2790						0.1266 - 0.0003 0.1173 - 0.0009	.3887 .3682				10 11	UNCH
2800 2810						0.1144 - 0.0011 0.1115 - 0.0012	.3616				2 11 111	UNCH
2850 2880						0.1005 - 0.0019 0.0929 - 0.0023 0.0880 - 0.0026	.3291 .3105 .2983				111 1 26	UNCH UNCH UNCH
2900 2910						0.0880 - 0.0026 0.0857 - 0.0027	.2983 .2924				26 11	UNCH
						SER AND IS FURNISHED THE BASIS FOR ANY CLA				CY OR CC	NTENT. IT	IS

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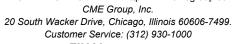
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FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	IOMINAL	PRICE IS THE	PREVIOUS DAY	'S SETTLEMENT PRI	CE.								-
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA C	EXER	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN EREST
LN CAL JUN20	.L	NYMEX NATURA	L GAS (EURO) OP	TS									
2930 2940						0.0812 - 0.0029 0.0790 - 0.0031	.2750					11 12	UNCH UNCH
2950 2960						0.0769 - 0.0032 0.0748 - 0.0033	.2638					23 11	UNCH UNCH
3000 3150						0.0670 - 0.0036 0.0436 - 0.0045	• • • • • •					646 36	UNCH UNCH
3250 3500						0.0323 - 0.0048 0.0153 - 0.0040					50 	725 765	UNCH UNCH
3700 3750						0.0084 - 0.0031 0.0072 - 0.0029	.0425					10 880	UNCH UNCH
4000 4250						0.0035 - 0.0018 0.0018 - 0.0010	.0193					810 90	UNCH
4450 5000						0.0011 - 0.0006 0.0003 - 0.0002	.0065					50 125	UNCH
5150						0.0002 - 0.0001 0.0002 - 0.0001	.0013					25 75	UNCH
5200 6000						0.0002 - 0.0001 0.0001 UNCH						28	UNCH
TOTAL JUL20											50	4621	
2700						0.1599 + 0.0011 0.1489 + 0.0005	. 1330					35 11	UNCH UNCH
2730 2750						0.1419 + 0.0001	.4180					70 10	UNCH
2760 2790						0.1287 - 0.0007	.3902					11	UNCH
2800 2810						0.1256 - 0.0008 0.1225 - 0.0010	.3767					2 11	UNCH
2850 2880						0.1107 - 0.0017 0.1025 - 0.0022	.3312					111	UNCH
2900 2910						0.0974 - 0.0024 0.0949 - 0.0025	.3127					26 11	UNCH UNCH
2930 2940						0.0900 - 0.0028 0.0876 - 0.0030	. 5007					11 12	UNCH UNCH
2950 2960						0.0853 - 0.0031 0.0831 - 0.0032						23 11	UNCH UNCH
3000 3150						0.0746 - 0.0037 0.0490 - 0.0048	.2609					646 36	UNCH UNCH
3250 3500						0.0366 - 0.0050 0.0174 - 0.0045	.1486				50	725 765	UNCH
3700 3750						0.0096 - 0.0036 0.0083 - 0.0033	.0474					10 880	UNCH
4000						0.0040 - 0.0022 0.0021 - 0.0012	.0216					810 90	UNCH
4250 4450						0.0012 - 0.0008	.0070					50	UNCH
5000 5150						0.0003 - 0.0003 0.0002 - 0.0002	.0013					125 25	UNCH
5200 6000						0.0002 - 0.0002 0.0001 UNCH						75 27	UNCH UNCH
TOTAL											50	4620	
AUG20 2700						0.1646 + 0.0005						35	UNCH
2730 2750						0.1535 - 0.0001 0.1465 - 0.0004						11 70	UNCH UNCH
2760 2790						0.1430 - 0.0006 0.1331 - 0.0011	.4174					10 11	UNCH UNCH
2800 2810						0.1299 - 0.0013 0.1267 - 0.0016	.3901					2 11	UNCH
2850 2880						0.1148 - 0.0022 0.1064 - 0.0027	.3570					111 1	UNCH
2900						0.1011 - 0.0030 0.0986 - 0.0031	.3255					26 11	UNCH
2910 2930						0.0936 - 0.0034	.3074					11	UNCH
2940 2950						0.0912 - 0.0035 0.0889 - 0.0035 0.0866 - 0.0037	.2957					12 23	UNCH
2960 3000						0.0779 - 0.0041	.2676					11 646	UNCH
3150 3250						0.0516 - 0.0051 0.0387 - 0.0055	.1542				50	36 725	UNCH UNCH
3500 3700						0.0186 - 0.0049 0.0104 - 0.0039	.0055					765 10	UNCH UNCH
3750 4000						0.0090 - 0.0036 0.0044 - 0.0024						880 810	UNCH UNCH
4250 4450						0.0023 - 0.0014 0.0014 - 0.0009						90 50	UNCH UNCH
5000 5150						0.0004 - 0.0003 0.0003 - 0.0002	.0024					125 25	UNCH
5200 6000						0.0002 - 0.0002 0.0001 UNCH	.0012					75 26	UNCH
TOTAL						0.0001	.0000				50	4619	ONCH
SEP20 2700						0.1599 - 0.0004	.4504					35	UNCH
2730						0.1491 - 0.0010 0.1422 - 0.0013	.4292					11 70	UNCH
2750 2760						0.1389 - 0.0014 0.1292 - 0.0020	.4085					10 11	UNCH
2790 2800						0.1261 - 0.0021	.3814					2	UNCH
2810 2850						0.1230 - 0.0024 0.1114 - 0.0030	.3489					11 111	UNCH
2880 2900						0.1033 - 0.0034 0.0982 - 0.0036	.3180					1 26	UNCH UNCH
2910 2930						0.0957 - 0.0038 0.0909 - 0.0040	.3002					11 11	UNCH UNCH
2940 2950						0.0885 - 0.0042 0.0863 - 0.0042	.2887					12 23	UNCH UNCH
2960 3000						0.0840 - 0.0044 0.0756 - 0.0047						11 646	UNCH UNCH
3150 3250						0.0501 - 0.0056 0.0376 - 0.0058	.1894				50	36 725	UNCH UNCH
3500 3700						0.0182 - 0.0050 0.0102 - 0.0040	.0818					765 10	UNCH
3750						0.0088 - 0.0037 0.0044 - 0.0024	.0433					880 810	UNCH
4000 4250						0.0022 - 0.0015	.0123					90	UNCH
4450 5000						0.0014 - 0.0009 0.0004 - 0.0003	.0024					50 125	UNCH
5150 5200						0.0003 - 0.0002 0.0002 - 0.0002	.0012					25 75	UNCH
6000 TOTAL						0.0001 UNCH	.0006				50	26 4619	UNCH
ост20													
2700 2730						0.1710 - 0.0016 0.1598 - 0.0021						35 11	UNCH UNCH
2750 2760						0.1527 - 0.0023 0.1492 - 0.0025	.4311					70 10	UNCH
2790 2790 2800						0.1391 - 0.0030 0.1359 - 0.0031	.4039					11	UNCH
2810						0.1339 - 0.0031 0.1327 - 0.0033 0.1206 - 0.0039	.3906					11 111	UNCH
2850 2880						0.1121 - 0.0043	.3459					1	UNCH
2900 2910						0.1067 - 0.0045 0.1041 - 0.0046	.3276					26 11 11	UNCH
2930 2940						0.0990 - 0.0049 0.0965 - 0.0050	.3098					11 12	UNCH
2950	IEOPMATTO	N CONTAINED IN	THIS DEPORT IS	COMPTLED FOR THE CO	NVENTENCE OF THE I	0.0941 - 0.0051 USER AND IS FURNISHED		SDONSTE	 2TLTTV E			23	UNCH
TUE TI	" OKMALTO	" CONTATNED IN	THE VELOKI TO	COMPTEED FOR THE CO	TATELATE OF THE C	THE BASTS FOR ANY CLA	MITTIOUT KES	OL ON DIE		ON ACCURA	CI UN CUI	ermite II	10

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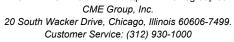




FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME VO	PNT DLUME	INTE	OPEN EREST
LN CAL	.L	NYMEX NATURA	AL GAS (EURO) OPT	ΓS								
2960 3000						0.0918 - 0.0052 0.0828 - 0.0056	.2984 .2761				11 646	UNCH UNCH
3150 3250						0.0557 - 0.0063 0.0422 - 0.0066	.2030			50	36 725	UNCH
3500 3700						0.0207 - 0.0058 0.0118 - 0.0046	.0899				765 10	UNCH
3750						0.0102 - 0.0043 0.0051 - 0.0029	.0486				880 810	UNCH
4000 4250						0.0031 - 0.0029 0.0027 - 0.0017 0.0016 - 0.0012	.0145				28 50	UNCH
4450 5000						0.0016 - 0.0012 0.0005 - 0.0003 0.0003 - 0.0003	.0029				125	UNCH
5150 5200						0.0003 - 0.0003	.0018				25 75 25	UNCH
6000 TOTAL						0.0001 UNCH	.0006			50	4556	UNCH
NOV20 2730						0.1913 - 0.0006	.4876				11	UNCH
2750						0.1841 - 0.0006 0.1806 - 0.0006	.4743				45 10	UNCH
2760 2790						0.1704 - 0.0007 0.1671 - 0.0007	.4484				11 2	UNCH
2800 2810						0.1639 - 0.0007	.4357				11 111	UNCH
2850 2880						0.1428 - 0.0007	.3932				1 26	UNCH
2900 2910						0.1346 - 0.0007	.3759				11	UNCH
2930 2940						0.1267 - 0.0008	.3590				11 12	UNCH
2950 2960						0.1242 - 0.0007 0.1218 - 0.0007 0.1123 - 0.0007	.3535 .3482 3270				23 11	UNCH
3000 3150						0.0824 - 0.0006	.2561				577 36	UNCH
3250 3500						0.0666 - 0.0006 0.0384 - 0.0005	.2157				550 765	UNCH
3700 3750						0.0244 - 0.0004 0.0217 - 0.0004	.0930				10 905	UNCH
4000 4250						0.0121 - 0.0002 0.0066 - 0.0002	.0505				810 4	UNCH
4450 5000						0.0041 - 0.0001 0.0010 - 0.0001	.0192				50 431	UNCH
5150 5200						0.0007 UNCH 0.0006 UNCH	.0038				25 75	UNCH
6000 TOTAL						0.0001 UNCH	.0006				25 4559	UNCH
DEC20						0.3500 0.0005	5755				11	
2730 2750						0.2600 - 0.0006 0.2512 - 0.0008	.5755				11 45	UNCH
2760 2790						0.2470 - 0.0007 0.2346 - 0.0007	.5554				10 11	UNCH
2800 2810						0.2305 - 0.0008 0.2265 - 0.0008	.5293				2 11	UNCH
2850 2880						0.2112 - 0.0008 0.2003 - 0.0008	.4975 .4789				111	UNCH
2900 2910						0.1933 - 0.0008 0.1899 - 0.0008	.4667 .4607				26 11	UNCH UNCH
2930 2940						0.1832 - 0.0008 0.1799 - 0.0008	.4488 .4429				11 12	UNCH UNCH
2950 2960						0.1767 - 0.0008 0.1735 - 0.0009	.4371 .4313				23 11	UNCH UNCH
3000 3150						0.1614 - 0.0009 0.1224 - 0.0008	.4086				577 _36	UNCH UNCH
3250 3500						0.1013 - 0.0008 0.0621 - 0.0007	.2852 .1921				550 765	UNCH UNCH
3700 3750						0.0413 - 0.0006 0.0373 - 0.0005	.1369 .1256				10 905	UNCH UNCH
4000 4250						0.0220 - 0.0005 0.0128 - 0.0003	.0799 .0498				810 4	UNCH UNCH
4450 4600						0.0083 - 0.0002 0.0059 - 0.0002	.0339 .0250				50 242	UNCH UNCH
5000 5150						0.0024 - 0.0001 0.0017 - 0.0001	.0110 .0080				319 25	UNCH UNCH
5200 6000						0.0015 - 0.0001 0.0002 - 0.0001	.0072 .0011				75 24	UNCH UNCH
TOTAL											4688	
JAN21 2850						0.2899 + 0.0024	.5637				260	UNCH
3000 3150						$\begin{array}{cccc} 0.2401 & + & 0.0021 \\ 0.1990 & + & 0.0021 \end{array}$.4851 .4166				740 65	UNCH UNCH
3250 3500						0.1745 + 0.0020 0.1244 + 0.0018	.3751 .2856				420 777	UNCH UNCH
3650 3750						$\begin{array}{cccc} 0.1012 & + & 0.0016 \\ 0.0881 & + & 0.0015 \end{array}$.2411 .2149				20 280	UNCH UNCH
4000 4500						0.0624 + 0.0012 0.0316 + 0.0008	.1606 .0890				140 112	UNCH UNCH
4700 4900						0.0241 + 0.0006 0.0184 + 0.0006	.0700 .0551				358 294	UNCH UNCH
5200 6000						$\begin{array}{cccc} 0.0123 & + & 0.0004 \\ 0.0042 & + & 0.0001 \end{array}$.0383 .0144				100 24	UNCH UNCH
TOTAL											3590	
FEB21 2850						0.2976 + 0.0032	.5496				260	UNCH
3000 3150						0.2506 + 0.0029 0.2104 + 0.0028	.4786 .4158				490 65	UNCH
3250 3500						0.1864 + 0.0027 0.1364 + 0.0023	.3775				420 777	UNCH
3650 3750						$0.1127 + 0.0020 \\ 0.0993 + 0.0019$.2516 .2266				20 280	UNCH UNCH
4000 4500						0.0724 + 0.0015 0.0389 + 0.0010	.1738 .1017				140 112	UNCH UNCH
4700 5200						0.0305 + 0.0009 0.0166 + 0.0006	.0821				30 100	UNCH
6000 6500						$\begin{array}{cccc} 0.0064 & + & 0.0003 \\ 0.0035 & + & 0.0002 \end{array}$.0201 .0116				23 510	UNCH UNCH
TOTAL											3227	
MAR21 2800						0.2918 + 0.0039	.5349				250	UNCH
2850 3000						0.2760 + 0.0038 0.2338 + 0.0036	.5115				260 490	UNCH
3150 3250						0.1960 + 0.0033 0.1739 + 0.0031	.3889				65 420	UNCH
3500 3650						0.1284 + 0.0025 0.1069 + 0.0022	.2769				777 20	UNCH
3750 4000						0.0947 + 0.0022 0.0698 + 0.0017	.2154 .1666				280 140	UNCH UNCH
4500 4700						$\begin{array}{cccc} 0.0384 & + & 0.0011 \\ 0.0304 & + & 0.0010 \end{array}$.0995 .0810				112 30	UNCH UNCH
5200 6000						0.0169 + 0.0006 0.0068 + 0.0002	.0481 .0211				100 23	UNCH UNCH
TOTAL											2967	
APR21 2550						0.2145 + 0.0064	.5191				250	UNCH
2750 THE IN	 IFORMATIO	N CONTAINED IN	THIS REPORT IS	COMPILED FOR THE CO	NVENIENCE OF THE U	0.1446 + 0.0055 ISER AND IS FURNISHED	.3933 WITHOUT RESPONS	 IBILITY F	OR ACCURACY	OR CONT	300 FENT. IT	UNCH
				RRORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLA . All rights reserved	IM, DEMAND, OR					





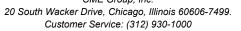
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	GLOBEX OPEN	OPEN OUTCRY	GLOBEX HIGH/LOW	S SETTLEMENT PRI OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY	GLOBEX® VOLUME VOL	PNT OPEN JME INTEREST
LN CAL	.L	NYMEX NATURAL	GAS (EURO) OPT					VOLUME		
APR21 2850						0.1176 + 0.0049	.3375			260 UNCH
3000 3150						0.0857 + 0.0042 0.0618 + 0.0034	.2645			450 UNCH 65 UNCH
3250 3500						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.1707 .1083			370 UNCH 777 UNCH
3650 3750						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0820 .0684			20 UNCH 280 UNCH
4000 4250						$0.0105 + 0.0009 \\ 0.0067 + 0.0006$.0438 .0289			140 UNCH 86 UNCH
4500 4700						$0.0045 + 0.0004 \\ 0.0034 + 0.0003$.0199 .0151			112 UNCH 30 UNCH
5200 6000						$ \begin{array}{rrrr} 0.0020 & + \ 0.0002 \\ 0.0010 & + \ 0.0001 \end{array} $.0089 .0044			100 UNCH 22 UNCH
TOTAL										3262
MAY21 2750						0.1292 + 0.0052	.3718			300 UNCH
2850 3000						0.1040 + 0.0046 0.0745 + 0.0039	.3159 .2436			260 UNCH 450 UNCH
3150 3250						0.0528 + 0.0031 0.0421 + 0.0027	.1847 .1530			65 UNCH 370 UNCH
3500 3650						0.0239 + 0.0018 0.0172 + 0.0013	.0944 .0707			777 UNCH 20 UNCH
3750 4000						0.0140 + 0.0012 0.0085 + 0.0008	.0587			280 UNCH 140 UNCH
4250 4500						$0.0054 + 0.0005 \\ 0.0037 + 0.0003$.0244 .0170			86 UNCH 112 UNCH
4700 5200						$0.0029 + 0.0003 \\ 0.0017 + 0.0002$.0133			30 UNCH 100 UNCH
6000						0.0009 + 0.0001	.0040			22 UNCH 3012
TOTAL JUN21										
2750 2850						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.3862 .3286			300 UNCH 260 UNCH
3000 3150						0.0783 + 0.0034 0.0555 + 0.0028	.2537 .1926			450 UNCH 65 UNCH
3250 3500						0.0442 + 0.0025 0.0250 + 0.0016	.1595			370 UNCH 777 UNCH
3650 3750						0.0180 + 0.0013 0.0145 + 0.0011	.0736 .0607			20 UNCH 280 UNCH
4000 4250						0.0088 + 0.0007 0.0056 + 0.0005	.0385			140 UNCH 86 UNCH
4500 4700						0.0038 + 0.0003 0.0029 + 0.0002	.0174 .0133			112 UNCH 30 UNCH
5200 6000						0.0017 + 0.0001 0.0009 + 0.0001	.0078			100 UNCH 22 UNCH
TOTAL						0.0003 + 0.0001	.0040			3012
JUL21 2750						0.1472 + 0.0046	.4061			300 UNCH
2850 3000						0.1192 + 0.0043 0.0860 + 0.0036	.3474			260 UNCH 450 UNCH
3150 3250						0.0613 + 0.0030 0.0489 + 0.0026	.2066 .1717			65 UNCH 370 UNCH
3500						0.0278 + 0.0017 0.0200 + 0.0013	.1065			777 UNCH 20 UNCH
3650 3750						0.0162 + 0.0011 0.0098 + 0.0008	.0663			280 UNCH 140 UNCH
4000 4250						0.0062 + 0.0005 0.0042 + 0.0003	.0275			86 UNCH
4500 4700						0.0032 + 0.0002	.0145			30 UNCH
5200 6000						$ \begin{array}{rrrr} 0.0019 & + \ 0.0002 \\ 0.0010 & + \ 0.0001 \end{array} $.0085 .0044			100 UNCH 21 UNCH
TOTAL										3011
AUG21 2750						0.1533 + 0.0047	.4148			300 UNCH
2850 3000						0.1246 + 0.0042 0.0905 + 0.0037	.2788			450 UNCH
3150 3250						0.0649 + 0.0030 0.0519 + 0.0026	.1786			370 UNCH
3500 3650						0.0298 + 0.0018 0.0215 + 0.0014	.0843			20 UNCH
3750 4000						0.0174 + 0.0012 0.0106 + 0.0008	.0699			280 UNCH 140 UNCH
4250 4500						0.0067 + 0.0005 0.0045 + 0.0004	.0292			86 UNCH 112 UNCH
4700 5200						0.0034 + 0.0002 0.0020 + 0.0001	.0152			30 UNCH 100 UNCH
6000 TOTAL						0.0010 UNCH	.0044			21 UNCH 3011
SEP21						0.1540 + 0.0046	.4146			300 UNCH
2750 2850						0.1254 + 0.0042 0.0913 + 0.0035	.3564			260 UNCH 450 UNCH
3000 3150						0.0658 + 0.0030	.2156			65 UNCH
3250 3500						0.0528 + 0.0026 0.0305 + 0.0018 0.0221 + 0.0014	.1802			370 UNCH 777 UNCH
3650 3750						0.0221 + 0.0014 0.0180 + 0.0012	.0858 .0715			20 UNCH 280 UNCH 140 UNCH
4000 4250						0.0110 + 0.0008 0.0070 + 0.0005	.0302			86 UNCH
4500 4700						0.0047 + 0.0004 0.0036 + 0.0003	.0207			112 UNCH 30 UNCH
5200 6000						$ \begin{array}{rrrr} 0.0021 & + 0.0001 \\ 0.0011 & + 0.0001 \end{array} $.0093 .0047			100 UNCH 21 UNCH
TOTAL										3011
OCT21 2750						0.1675 + 0.0047 0.1374 + 0.0043	.4337			300 UNCH 260 UNCH
2850 3000						0.1012 + 0.0037	.2975			450 UNCH
3150 3250						0.0738 + 0.0032 0.0595 + 0.0027	.2321			65 UNCH 370 UNCH
3500 3650						0.0349 + 0.0019 0.0254 + 0.0015	.1249			777 UNCH 20 UNCH
3750 4000						0.0207 + 0.0013 0.0127 + 0.0009	.0794			280 UNCH 140 UNCH
4250 4500						0.0081 + 0.0006 0.0054 + 0.0004	.0339 .0231			24 UNCH 112 UNCH
4700 5200						0.0041 + 0.0003 0.0024 + 0.0002	.0177			30 UNCH
6000 TOTAL						0.0013 + 0.0001	.0055			20 UNCH 2948
NOV21						0.1644	4153			360
2850 3000						0.1644 + 0.0045 0.1245 + 0.0040	.4152			260 UNCH
3150 3250						0.0958 + 0.0033 0.0819 + 0.0031	.2723 .2378			65 UNCH 370 UNCH
3500 3650						$ \begin{array}{r} 0.0569 + 0.0023 \\ 0.0471 + 0.0021 \end{array} $.1717 .1437			777 UNCH 20 UNCH
3750 4000						0.0418 + 0.0019 0.0317 + 0.0014	.1283 .0982			280 UNCH 140 UNCH
4500 4700						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0592 .0472			112 UNCH 30 UNCH
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IHE I	NOMINAL	PRICE 15 THE	PREVIOUS DAY	S SETTLEMENT PRI	CE.					
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PN VOLUME VOLUM	
LN CA NOV21	LL	NYMEX NATURA	AL GAS (EURO) OP	TS						
5200 6000						$0.0079 + 0.0006 \\ 0.0026 + 0.0002$.0268 .0097			- 20 UNCH
TOTAL										2624
DEC21 2850						0.2322 + 0.0050	.5041			200 0.1.0.1
3000 3150						0.1811 + 0.0046 0.1405 + 0.0041 0.1189 + 0.0038	.4216 .3483 .3054			- 65 UNCH
3250 3500						0.0821 + 0.0030 0.0671 + 0.0025	.2229			- 777 UNCH
3650 3750						0.0594 + 0.0023 0.0449 + 0.0019	.1663			- 280 UNCH
4000 4500						0.0278 + 0.0013 0.0228 + 0.0012	.0801			- 1 <u>1</u> 2 UNCH
4700 5200 6000						0.0130 + 0.0007 0.0052 + 0.0004	.0396			- 100 UNCH
TOTAL						0.0032 1 0.0001	.01/1			2624
JAN22 2850						0.3225 + 0.0033	.5711			- 50 UNCH
3000 3250						0.2665 + 0.0031 0.1922 + 0.0026	.4977 .3896			, , , , , , , , , , , , , , , , , , , ,
3500 3650						$ \begin{array}{rrrr} 0.1376 & + & 0.0021 \\ 0.1124 & + & 0.0019 \end{array} $.3000 .2550			
4000 4500						0.0699 + 0.0013 0.0358 + 0.0008	.1722 .0970			- 42 UNCH
4700 5000						$0.0277 + 0.0007 \\ 0.0189 + 0.0004$.0773 .0550			- 50 UNCH
6000 TOTAL						0.0058 + 0.0002	.0187			19 UNCH 904
FEB22						0.3266 . 0.0022	5502			- FO INC.
2850 3000						0.3266 + 0.0033 0.2727 + 0.0030	.5592 .4907 .3896			- 70 UNCH
3250 3500						0.2007 + 0.0025 0.1468 + 0.0020 0.1215 + 0.0018	.3052			- 300 UNCH
3650 4000 4500						0.1215 + 0.0018 0.0780 + 0.0014 0.0418 + 0.0008	.2622 .1821 .1069			- 80 UNCH
4500 4700 5000						0.0418 + 0.0008 0.0329 + 0.0007 0.0231 + 0.0005	.0867			- 30 UNCH
6000						0.0077 + 0.0002	.0233			
TOTAL MAR22										301
2850 3000						0.3074 + 0.0031 0.2578 + 0.0028	.5299 .4656			30 011011
3250 3500						$ \begin{array}{rrrr} 0.1911 & + & 0.0023 \\ 0.1412 & + & 0.0019 \end{array} $.3710 .2924			250 UNCH
3650 4000						$ \begin{array}{rrrr} 0.1177 & + & 0.0017 \\ 0.0769 & + & 0.0013 \end{array} $.2524 .1776			10 011011
4500 4700						$0.0423 + 0.0008 \\ 0.0336 + 0.0006$.1066 .0871			- 30 UNCH
5000 6000						$0.0240 + 0.0005 \\ 0.0083 + 0.0002$.0646 .0247			- 19 UNCH
TOTAL										904
APR22 2800						0.1694 + 0.0006	.4063			
2850 3000						0.1560 + 0.0006 0.1214 + 0.0003	.3818			- 70 UNCH
3250 3500						0.0797 + 0.0001 0.0522 UNCH	.1576			- 302 UNCH
3650 4000						0.0405 - 0.0001 0.0232 - 0.0001	.1270			- 80 UNCH
4500 4700						0.0112 - 0.0001 0.0086 - 0.0001	.0401			
5000 6000						0.0059 - 0.0001 0.0022 UNCH	.0220 .0085			- 18 UNCH
TOTAL MAY22										927
2800 2850						$ \begin{array}{rrrr} 0.1495 & + & 0.0006 \\ 0.1368 & + & 0.0005 \end{array} $.3847			23 011011
3000 3250						0.1045 + 0.0002 0.0664 UNCH	.2912			- 70 UNCH
3500 3650						0.0422 - 0.0001 0.0323 - 0.0001	.1375			303 UNCH
4000 4500						0.0179 - 0.0001 0.0084 - 0.0001	.0646			80 UNCH
4700 5000						0.0064 UNCH 0.0044 UNCH	.0249			30 UNCH
6000 TOTAL						0.0017 UNCH	.0068			
JUN22						0.1563	2076			25
2800 2850						0.1563 + 0.0005 0.1431 + 0.0004	.3976			- 50 UNCH
3000 3250						0.1094 + 0.0002 0.0696 UNCH	.3017 .2091			- 250 UNCH
3500 3650						0.0441 - 0.0002 0.0337 - 0.0002 0.0186 - 0.0002	.1131			- 10 UNCH
4000 4500						0.0087 - 0.0001	.0332			- 42 UNCH
4700 5000						0.0066 - 0.0001 0.0045 - 0.0001 0.0017 UNCH	.0178			- 50 UNCH
6000 TOTAL		==			-	0.0017 UNCH	.0068			- 18 UNCH 927
JUL22 2800						0.1662 + 0.0006	.4136			- 25 UNCH
2850 3000						0.1524 + 0.0005 0.1171 + 0.0002	.3873			- 50 UNCH
3250 3500						0.0749 UNCH 0.0477 - 0.0001	.2203			250 UNCH
3650 4000						0.0365 - 0.0002 0.0203 - 0.0001	.1201			- 10 UNCH
4500 4700						0.0095 - 0.0001 0.0072 - 0.0001	.0356 .0275			42 UNCH 30 UNCH
5000 6000						0.0049 - 0.0001 0.0019 UNCH	.0191 .0075			- 50 UNCH - 18 UNCH
TOTAL										928
AUG22 2800						0.1715 + 0.0005	.4215			L3 ONCH
2850 3000						0.1573 + 0.0004 0.1212 + 0.0001	.3949			- 70 UNCH
3250 3500						0.0779 - 0.0001 0.0498 - 0.0002	.2262			- 303 UNCH
3650 4000						0.0382 - 0.0002 0.0213 - 0.0002	.1242			- 80 UNCH
4500 4700						0.0100 - 0.0001 0.0076 - 0.0001 0.0052 - 0.0001	.0371			- 30 UNCH
5000 6000						0.0052 - 0.0001 0.0020 UNCH	.0200 .0078			50 011011
TOTAL										
THE I	NEORMATTO	ON CONTAINED IN	THIS REPORT IS	COMPTLED FOR THE CO	NVENTENCE OF THE U	SER AND IS FURNISHED W	VITHOUT RESPONS	TRTLTTY F	OR ACCURACY OF	CONTENT IT IS

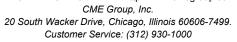




Side 84

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE N	OMINAL	PRICE 15 THE	PREVIOUS DAY	S SETTLEMENT PRI	CE.					
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® PN VOLUME VOLUM	
LN CAL SEP22	L	NYMEX NATURAL	GAS (EURO) OPT	гѕ						
2800 2850						0.1726 + 0.0004 0.1585 + 0.0004	.4226 .3962			25 0
3000 3250						$ \begin{array}{rrrr} 0.1223 & + 0.0001 \\ 0.0788 & - 0.0002 \end{array} $.3242 .2277			, , , , , , , , , , , , , , , , , , , ,
3500 3650						0.0506 - 0.0002 0.0388 - 0.0003	.1573			- 302 UNCH
4000						0.0217 - 0.0002 0.0103 - 0.0001	.0751			- 80 UNCH
4500 4700						0.0078 - 0.0001	.0293			- 30 UNCH
5000 6000						0.0054 - 0.0001 0.0020 UNCH	.0206 .0078			- 17 UNCH
TOTAL										926
ост22 2800						0.1852 + 0.0001	.4396			
2850 3000						0.1704 UNCH 0.1324 - 0.0002	.4130 .3402			50 0
3250 3500						0.0862 - 0.0004 0.0559 - 0.0004	.2415 .1686			250 0
3650 4000						0.0431 - 0.0004 0.0243 - 0.0003	.1352			- 10 UNCH
4500						0.0116 - 0.0003 0.0089 - 0.0002	.0416			- 42 UNCH
4700 5000						0.0061 - 0.0002	.0228			- 50 UNCH
6000 TOTAL						0.0023 UNCH	.0088			- 17 UNCH 927
NOV22						0 1071 0 0001	4404			F0
2850 3000						0.1971 - 0.0001 0.1548 - 0.0003	.4494 .3744			- 70 UNCH
3250 3500						0.1021 - 0.0004 0.0665 - 0.0004	.2702 .1906			
3650 4000						0.0512 - 0.0005 0.0282 - 0.0004	.1533			- 10 UNCH
4500 4700						0.0131 - 0.0002 0.0099 - 0.0002	.0460			- 42 UNCH
5000 6000						0.0068 - 0.0001 0.0028 UNCH	.0249			- 50 UNCH
TOTAL						0.0020 ONCH	.0203			901
DEC22 2850						0.2663 + 0.0001	.5326			- 50 UNCH
3000						0.2145 - 0.0001 0.1474 - 0.0004	.4544			- 70 UNCH
3250 3500						0.0998 - 0.0005	.2509			- 303 UNCH
3650 4000						0.0786 - 0.0006 0.0451 - 0.0005	.2066 .1296			- 80 UNCH
4500 4700						0.0212 - 0.0004 0.0160 - 0.0003	.0668 .0518			- 30 UNCH
5000 6000						0.0109 - 0.0002 0.0040 - 0.0001	.0363 .0138			30 0
TOTAL										902
JAN23 3000						0.2892 + 0.0021	.5209			- 200 UNCH
3050						0.2715 + 0.0021 0.2099 + 0.0017	.4976 .4110			- 10 UNCH
3250 3500						0.1523 + 0.0014 0.1183 + 0.0012	.3199			- 53 UNCH
3700 4000						0.0817 + 0.0009	.1909			- 30 UNCH
4500 4700						$0.0452 + 0.0005 \\ 0.0359 + 0.0005$.1141 .0931			- 30 UNCH
5250 5500						0.0192 + 0.0002 0.0147 + 0.0003	.0531 .0417			30 011011
6000						0.0087 + 0.0002	.0257			
TOTAL FEB23										
3000 3050						0.2934 + 0.0016 0.2763 + 0.0016	.5130 .4910			- 200 UNCH - 10 UNCH
3250 3500						0.2165 + 0.0014 0.1597 + 0.0011	.4094			- 200 UNCH
3700						0.1260 + 0.0010	.2662			- 10 UNCH
4000 4500						0.0889 + 0.0008 0.0508 + 0.0005	.1225			- 42 UNCH
4700 5250						$0.0408 + 0.0004 \\ 0.0228 + 0.0003$.1010 .0601			- 30 UNCH
5500 6000						0.0176 + 0.0002 0.0108 + 0.0002	.0475			- 16 UNCH
TOTAL										668
MAR23 3000						0.2773 + 0.0016	.4882			- 200 UNCH
3050 3250						0.2614 + 0.0015 0.2061 + 0.0013	.4674			- 10 UNCH
3500 3700						$0.1535 + 0.0010 \\ 0.1222 + 0.0009$.3096			- 53 UNCH
4000 4500						0.0874 + 0.0007 0.0510 + 0.0004	.1937			- 30 UNCH
4700						0.0413 + 0.0004	.1010			- 30 UNCH
5250 5500						0.0234 + 0.0002 0.0183 + 0.0002	.0487			- 50 UNCH
6000 TOTAL						0.0114 + 0.0001	.0316			- 16 UNCH 671
APR23						0 1526 - 0 0012	2502			200
3000 3050						0.1526 + 0.0012 $0.1419 + 0.0011$.3583			- 10 UNCH
3250 3500						$0.1073 + 0.0009 \\ 0.0764 + 0.0007$.2684 .2011			- 52 UNCH
3700 4000						$0.0584 + 0.0006 \\ 0.0393 + 0.0004$.1594 .1126			±0 0c
4500 4700						0.0209 + 0.0003 0.0163 + 0.0002	.0639 .0510			12 011011
5250 5500						0.0084 + 0.0001 0.0063 + 0.0001	.0278			- 30 UNCH
6000						0.0035 UNCH	.0124			
TOTAL MAY23										070
3000						0.1488 + 0.0011	.3514			
3050 3250						0.1385 + 0.0010 $0.1050 + 0.0009$.3317			- 200 UNCH
3500 3700						0.0748 + 0.0007 0.0572 + 0.0005	.1975			- 10 UNCH
4000 4500						$0.0386 + 0.0004 \\ 0.0205 + 0.0002$.1109 .0629			- 42 UNCH
4700 5250						$\begin{array}{cccc} 0.0160 & + & 0.0002 \\ 0.0083 & + & 0.0001 \end{array}$.0503 .0276			- 30 UNCH
5500 6000						0.0062 UNCH 0.0035 UNCH	.0211			- 50 UNCH
TOTAL							· = ·			671
JUN23 3000						0.1584 + 0.0011	.3648			- 200 UNCH
3050 3250						0.1476 + 0.0011 0.1123 + 0.0009	.3447			- 10 UNCH
3500						0.0806 + 0.0007	.2076			
				RRORS OR OMISSIONS		JSER AND IS FURNISHED N THE BASIS FOR ANY CLA				CONTENT. IT IS



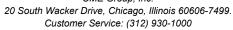




PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
LN CAL JUN23	L	NYMEX NATURAL	. GAS (EURO) OPT	S								
3700 4000						0.0620 + 0.0006 0.0422 + 0.0004	.1655 .1181				10 30	UNCH UNCH
4500 4700						0.0227 + 0.0002 0.0178 + 0.0002	.0679				42 30	UNCH
5250 5500						$0.0094 + 0.0001 \\ 0.0071 + 0.0001$.0304				30 50	UNCH UNCH
6000 TOTAL						0.0040 UNCH	.0138				16 670	UNCH
JUL23						0.1602	2702				200	
3000 3050						0.1692 + 0.0012 0.1579 + 0.0012	.3792 .3589 .2877				200 10	UNCH
3250 3500						0.1205 + 0.0010 0.0871 + 0.0007 0.0673 + 0.0006	.2877 .2185 .1751				200 53 10	UNCH UNCH UNCH
3700 4000 4500						0.0461 + 0.0004 0.0252 + 0.0003	.1257				30 42	UNCH
4700 5250						0.0198 + 0.0002 0.0105 + 0.0001	.0590				30 30	UNCH
5500 6000						0.0080 + 0.0001 0.0046 UNCH	.0258 .0154				50 15	UNCH
TOTAL											670	
AUG23 3000						0.1763 + 0.0012	.3881				200	UNCH
3050 3250						0.1646 + 0.0011 0.1259 + 0.0009	.3676				10 200	UNCH
3500 3700						0.0914 + 0.0007 0.0709 + 0.0006	.1813				53 10	UNCH
4000 4500						0.0488 + 0.0004 0.0269 + 0.0003	.1308				30 42	UNCH
4700 5250						0.0213 + 0.0002 0.0114 + 0.0001 0.0087 + 0.0001	.0623 .0353 .0275				30 30 50	UNCH UNCH UNCH
5500 6000						0.0051 + 0.0001	.0168				15 670	UNCH
TOTAL SEP23											070	
3000 3050						0.1789 + 0.0012 0.1672 + 0.0011	.3905 .3701				200 10	UNCH UNCH
3250 3500						0.1283 + 0.0009 0.0935 + 0.0008	.2984 .2283				200 52	UNCH UNCH
3700 4000						0.0727 + 0.0006 0.0503 + 0.0005	.1840 .1334				10 30	UNCH UNCH
4500 4700						0.0279 + 0.0003 0.0222 + 0.0002	.0789 .0642				42 30	UNCH UNCH
5250 5500						0.0120 + 0.0001 0.0092 + 0.0001	.0367				30 50	UNCH
6000 TOTAL						0.0054 UNCH	.0176				15 669	UNCH
OCT23						0.1903 + 0.0012	.4048				200	UNCH
3000 3050 3250						0.1781 + 0.0011 0.1371 + 0.0009	.3842				10 200	UNCH
3500 3500 3700						0.1004 + 0.0008 0.0784 + 0.0006	.2393				53 10	UNCH
4000 4500						0.0546 + 0.0005 0.0306 + 0.0003	.1413				30 42	UNCH
4700 5250						0.0244 + 0.0002 0.0134 + 0.0002	.0689				30 30	UNCH
5500 6000						0.0103 + 0.0001 0.0061 UNCH	.0314 .0194				50 15	UNCH
TOTAL											670	
NOV23 3000						0.2145 + 0.0013	.4348				200	UNCH
3050 3250						0.2011 + 0.0012 0.1557 + 0.0010	.4135				10 200	UNCH
3500 3700						0.1146 + 0.0008 0.0902 + 0.0006 0.0634 + 0.0005	.2614 .2132 .1571				52 10 30	UNCH UNCH UNCH
4000 4500 4700						0.0360 + 0.0004 0.0289 + 0.0002	.0952				42 30	UNCH
5250 5500						0.0160 + 0.0001 0.0124 + 0.0001	.0458				30 50	UNCH
TOTAL											654	
DEC23 3000						0.2764 + 0.0014	.5050				200	UNCH
3050 3250						0.2602 + 0.0014 0.2041 + 0.0011	.4825				10 200	UNCH
3500 3700						0.1514 + 0.0009 0.1206 + 0.0008	.3145				53 10	UNCH
4000 4500						0.0861 + 0.0006 0.0500 + 0.0004	.1948				30 42	UNCH
4700 5250						0.0405 + 0.0003 0.0231 + 0.0002 0.0180 + 0.0001	.1004 .0606 .0483				30 30 50	UNCH UNCH UNCH
5500 TOTAL						0.0180 + 0.0001	.0463				655	UNCH
JAN24 3050						0.3135 + 0.0015	.5371				20	UNCH
3250 3500						0.2488 + 0.0013 0.1857 + 0.0010	.4509 .3589				500 31	UNCH UNCH
3700 4500						0.1468 + 0.0009 0.0598 + 0.0004	.2971 .1386				20 30	UNCH UNCH
4700 5300						0.0488 + 0.0004 0.0285 + 0.0002	.1157 .0705				30 60	UNCH UNCH
TOTAL											691	
FEB24 3050 3250						0.3032 + 0.0014 0.2405 + 0.0012	.5254 .4406				20 500	UNCH UNCH
3500 3500 3700						0.1796 + 0.0012 0.1419 + 0.0008	.3503				29 20	UNCH
4500 4700						0.0582 + 0.0004 0.0476 + 0.0004	.1356				30 30	UNCH
5300 TOTAL						0.0279 + 0.0002	.0693				60 689	UNCH
MAR24												
3050 3250						0.2761 + 0.0014 0.2181 + 0.0011	.4960				20 500	UNCH
3500 3700						0.1622 + 0.0009 0.1278 + 0.0008	.3272				31 20	UNCH
4500 4700						0.0525 + 0.0004 0.0431 + 0.0003	.1255				30 30	UNCH
5300 TOTAL						0.0253 + 0.0002	.0642				60 691	UNCH
APR24 3050						0.1825 + 0.0011	.3859				20	UNCH
3250 3500						0.1399 + 0.0009 0.1004 + 0.0007	.3127 .2386				500 30	UNCH
3700 4500						0.0777 + 0.0006 0.0321 + 0.0003	.1922 .0872				20 30	UNCH UNCH
4700						0.0266 + 0.0003	.0732				30	UNCH
			THIS REPORT IS C ONDITION THAT ER			SER AND IS FURNISHED				CY OR CO	NIENT. IT	12

 ${\it CME\ Group,\ Inc.}$







Side 86

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	S SETTLEMENT PRI OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME \	PNT VOLUME		OPEN REST
LN CAL APR24			L GAS (EURO) OPT			0.0146 . 0.0001	0422				60	IINGII
5300 TOTAL						0.0146 + 0.0001	.0422				60 690	UNCH
MAY24 3050 3250						0.1781 + 0.0011 0.1366 + 0.0009	.3791 .3071				20 500	UNCH UNCH
3500 3700						0.0982 + 0.0007 0.0761 + 0.0006	.2345				31 20	UNCH
4500 4700						0.0316 + 0.0003 0.0262 + 0.0002	.0861 .0723				30 30	UNCH UNCH
5300 TOTAL						0.0145 + 0.0002	.0420				60 691	UNCH
JUN24 3050						0.1883 + 0.0010	.3915				20	UNCH
3250 3500						$ \begin{array}{rrrr} 0.1453 & + 0.0009 \\ 0.1050 & + 0.0007 \end{array} $.3189				500 30	UNCH UNCH
3700 4500						0.0816 + 0.0006 0.0340 + 0.0003	.1980				20 30	UNCH
4700 5300						0.0283 + 0.0002 0.0158 + 0.0001	.0765 .0448				30 60 690	UNCH
TOTAL JUL24												
3050 3250						0.2001 + 0.0011 0.1551 + 0.0009	.4056				20 500	UNCH
3500 3700						0.1127 + 0.0007 0.0878 + 0.0006	.2562				31 20	UNCH
4500 4700						0.0367 + 0.0003 0.0306 + 0.0003 0.0174 + 0.0002	.0960 .0810 .0482				30 30 60	UNCH UNCH UNCH
5300 TOTAL						0.0174 + 0.0002	.0402				691	ONCH
AUG24 3050						0.2079 + 0.0011	.4143				20	UNCH
3250 3500						0.1618 + 0.0009 0.1182 + 0.0008	.3402				500 31	UNCH
3700 4500 4700						0.0923 + 0.0006 0.0387 + 0.0003 0.0323 + 0.0003	.2149 .0997 .0843				20 30 30	UNCH UNCH UNCH
5300 TOTAL						0.0186 + 0.0002	.0507				60 691	UNCH
SEP24						0.2102 . 0.0011	41.62					
3050 3250						0.2103 + 0.0011 $0.1641 + 0.0009$ $0.1202 + 0.0007$.4162 .3425 .2663				20 500 30	UNCH UNCH UNCH
3500 3700 4500						0.0941 + 0.0006 0.0397 + 0.0003	.2173				20 30	UNCH
4700 5300						0.0332 + 0.0003 0.0192 + 0.0001	.0859				30 60	UNCH
TOTAL											690	
OCT24 3050						$0.2223 + 0.0011 \\ 0.1743 + 0.0010$.4296 .3551				20 500	UNCH UNCH
3250 3500 3700						0.1284 + 0.0008 0.1008 + 0.0006	.2776				31 20	UNCH
4500 4700						0.0427 + 0.0004 0.0356 + 0.0002	.1070				30 30	UNCH
5300 TOTAL						0.0210 + 0.0002	.0555				60 691	UNCH
NOV24 3050						0.2470 + 0.0011	.4575				20	UNCH
3250 3500						$ \begin{array}{rrrr} 0.1939 & + & 0.0010 \\ 0.1426 & + & 0.0008 \end{array} $.3800				500 30	UNCH
3700 4500						$ \begin{array}{rrrr} 0.1131 & + 0.0007 \\ 0.0500 & + 0.0003 \end{array} $.2460 .1198				20 30	UNCH UNCH
4700 5300						$\begin{array}{cccc} 0.0418 & + & 0.0003 \\ 0.0251 & + & 0.0002 \end{array}$.1016 .0634				30 60 690	UNCH UNCH
TOTAL DEC24											690	
3050 3250						$ \begin{array}{rrrr} 0.3121 & + \ 0.0013 \\ 0.2490 & + \ 0.0011 \end{array} $.5232 .4417				20 500	UNCH UNCH
3500 3700						0.1867 + 0.0009 0.1482 + 0.0008	.3537 .2942 .1461				31 20	UNCH
4500 4700 5300						0.0658 + 0.0004 0.0551 + 0.0004 0.0337 + 0.0002	.1461 .1244 .0791				30 30 60	UNCH UNCH UNCH
TOTAL						0.0337 1 0.0002	.0751				691	onen
JAN25 3000						0.3725 + 0.0014	.5960				75	UNCH
5000 TOTAL						0.0641 + 0.0004	.1305				60 135	UNCH
FEB25 3000						0.3608 + 0.0014	.5841				75	UNCH
5000 TOTAL						0.0627 + 0.0003	.1283				60 135	UNCH
MAR25 3000						0.3303 + 0.0013	.5542				75	UNCH
5000 TOTAL						0.0579 + 0.0003	.1210				60 135	UNCH
APR25						0.2275 . 0.0011	4420				7.5	
3000 5000						0.2275 + 0.0011 0.0375 + 0.0002	.4438 .0884				75 60 135	UNCH UNCH
TOTAL MAY25												
3000 5000						$ \begin{array}{rrrr} 0.2215 & + 0.0011 \\ 0.0370 & + 0.0002 \end{array} $.4358 .0874				75 60	UNCH UNCH
TOTAL JUN25											135	
3000 5000						$0.2326 + 0.0011 \\ 0.0395 + 0.0003$.4480 .0916				75 60	UNCH UNCH
TOTAL											135	
JUL25 3000 5000						0.2446 + 0.0011 0.0421 + 0.0002	.4609 .0959				75 60	UNCH UNCH
TOTAL	=					0.0721 + 0.0002	.0000		_	_	135	ONCH
AUG25 3000						0.2546 + 0.0011	.4712				75 60	UNCH
5000 TOTAL						0.0445 + 0.0003	.0998				60 135	UNCH
SEP25 3000						0.2567 + 0.0012	.4726				75	UNCH
5000 TOTAL						0.0454 + 0.0003	.1012				60 135	UNCH
OCT25												
THE IN	EODMATTO	N CONTAINED IN	THIS DEDORT IS	COMPTLED EOD THE CO	NIVENTENCE OF THE II	SER AND IS FURNISHED W	TTHOUT DESDONS	TRTLTTV E	OP ACCURA	CV OR CO	NTENT TT	тс

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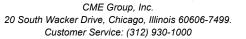


Side 87

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	PREVIOUS DAY'S S GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		PRICE CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		INTE	OPEN REST
LN CALI	L	NYMEX NATURAL	GAS (EURO) OPTS	,						VOLUME				
ост25 3000						0.2704	+ 0.0012	.4866					75	UNCH
5000 TOTAL						0.0485	+ 0.0003	.1060					60 135	UNCH
NOV25 3000							+ 0.0013	.5153					75	UNCH
5000 TOTAL						0.0545	+ 0.0003	.1152					60 135	UNCH
DEC25 3000							+ 0.0014	.5810					75	UNCH
5000 TOTAL						0.0684	+ 0.0004	.1356					60 135	UNCH
LN PUT JUL18		NYMEX NATURAL	GAS (EURO) OPTS			0.0000	UNCH						0	UNCU
2500 2800 2850						0.0000 0.0000 0.0000	UNCH UNCH UNCH						0	UNCH UNCH UNCH
2900 2950						0.0000 0.0110	UNCH						0 0	UNCH
2980 3000						0.0410 0.0610	UNCH	1.0000					0	UNCH
3010 3050						0.0710 0.1110	UNCH	1.0000					0	UNCH
3070 3080						0.1310 0.1410	UNCH UNCH	1.0000 1.0000					0	UNCH UNCH
3100 3140						0.1610 0.2010	UNCH UNCH	1.0000 1.0000					0 0	UNCH UNCH
3150 3200						0.2110 0.2610	UNCH UNCH	1.0000 1.0000					0 0	UNCH UNCH
3250 3260						0.3110 0.3210	UNCH UNCH	1.0000 1.0000					0 0	UNCH UNCH
3400 3500						0.4610 0.5610	UNCH UNCH	1.0000 1.0000					0 0	UNCH UNCH
3750 4000						0.8110 1.0610	UNCH UNCH	$1.0000 \\ 1.0000$					0 0	UNCH UNCH
4150 4400						1.2110 1.4610	UNCH UNCH	$1.0000 \\ 1.0000$					0	UNCH UNCH
4450 4500						1.5110 1.5610	UNCH UNCH	$1.0000 \\ 1.0000$					0	UNCH UNCH
4600 4800						1.6610 1.8610	UNCH UNCH	1.0000 1.0000					0	UNCH
6500 TOTAL						3.5610	UNCH	1.0000					0	UNCH
AUG18						0.0001	UNCH						150	UNCH
1500 1750 1900						0.0001 0.0001 0.0001	UNCH						200 100	UNCH
2000 2050						0.0001 0.0001 0.0001	UNCH						8631	UNCH
2100 2150						0.0001 0.0001	UNCH						901 986	UNCH
2200 2250						0.0001 0.0001	UNCH	.0000					1665 6711	UNCH
2300 2350						0.0001 0.0001	UNCH	.0000					1571 1833	UNCH
2400 2450						0.0001	- 0.0001 - 0.0002	.0005					2549 712	UNCH
2460 2500						0.0002	- 0.0002 - 0.0003	.0026					131 8026	UNCH UNCH
2550 2590							- 0.0004 - 0.0007	.0079 .0140			27 		1423 + 247	13 UNCH
2600	0.0000	0.0000	0.0000/*0.000	0.0000/*0.000			- 0.0007 - 0.0008	.0163 .0186			64 202		5189 545 +	UNCH 52
2650	0.0000 0.0100	0.0000 0.0100	0.0000/*0.000	0.0000/*0.000 0.0100/*0.010			- 0.0014 - 0.0028	.0310 .0559			622 164		6792 - 4698 -	264 40
2750	0.0100 0.0200	0.0100 0.0200	0.0100B/*0.010 0.0200B/*0.010	0.0100B/*0.010 0.0200B/*0.010			- 0.0051 - 0.0076	.0947 .1382			1821 21	1200	16380 + 226	1062 UNCH
2840	0.0200 0.0200	0.0200 0.0200	0.0200B/*0.010 0.0300B/*0.020	0.0200B/*0.010 0.0300B/*0.020		0.0236	- 0.0085 - 0.0117	.1505 .2094			540 12	650 	10894 - 113 +	91 11
2870	0.0300	0.0300	0.0300B/*0.020 /*0.0300A	0.0300B/*0.020 /*0.0300A		0.0313	- 0.0126 - 0.0146	.2259 .2609			1129 1	150	6453 + 114 +	64 1
2930	0.0400 0.0500	0.0400 0.0500	0.0500B/*0.040 0.0600B/*0.050	0.0500B/*0.040 0.0600B/*0.050		0.0518	- 0.0177 - 0.0208	.3177 .3787			1711	500	8639 - 390 -	494 1
2980	0.0600	0.0600	0.0700B/*0.060 /*0.0700A	0.0700B/*0.060 /*0.0700A		0.0745	- 0.0231 - 0.0264	.4209			164		1791 35	UNCH
3010	0.0900	0.0900	0.1000B/*0.080 /0.0800A	0.1000B/*0.080 /0.0800A		0.0907	- 0.0285 - 0.0296	.5284			234	900	2380 + 32	WNCH
3050 3070			/0.1100A /0.1200A /0.1400A	/0.1100A /0.1200A /0.1400A		0.1285	- 0.0337 - 0.0356 - 0.0382	.6325 .6716 .7263					179 25 43	UNCH
3100 3150			/0.1400A /0.1800A /0.2200A	/0.1400A /0.1800A /0.2200A		0.1890	- 0.0382 - 0.0421 - 0.0447	.8047 .8654					1 2	UNCH UNCH UNCH
3200 3250 3260 (0.2800	0.2800	/0.2600A #0.2800/*0.280	/0.2600A #0.2800/*0.280			- 0.0470 NEW	.9104			 1		425 1 +	UNCH 1
3300 3350			/0.3100A /0.3600A	/0.3100A /0.3600A		0.3236	- 0.0482 - 0.0490	.9409					1 6	UNCH UNCH
3400 3450			/0.4100A /0.4600A	/0.4100A /0.4600A		0.4205	- 0.0493 - 0.0495	.9742 .9826					52 2	UNCH
3500 3550			/0.5100A /0.5600A	/0.5100A /0.5600A		0.5192 0.5689	- 0.0496 - 0.0496	.9876 .9903					6 <u>1</u> 3	UNCH
3600 3750			/0.6100A /0.7600A	/0.6100A /0.7600A			- 0.0495 - 0.0497	.9928 .9965					3 100	UNCH UNCH
4000 4150			/1.0100A /*1.1700A	/1.0100A /*1.1700A		1.1673	- 0.0498 - 0.0499	.9995					255 100	UNCH
4400 4450			/*1.4200A /*1.4700A	/*1.4200A /*1.4700A		1.4669	- 0.0499 - 0.0498	$1.0000 \\ 1.0000$					15 50	UNCH UNCH
4500 4600			/*1.5200A /*1.6200A	/*1.5200A /*1.6200A		1.6166	- 0.0498 - 0.0499	$1.0000 \\ 1.0000$					50 90	UNCH UNCH
4800 6500			/*1.8200A /*3.5200A	/*1.8200A /*3.5200A			- 0.0499 - 0.0497	$1.0000 \\ 1.0000$					25 10	UNCH
TOTAL SEP18											6718	3400	102009 +	1119
1500						0.0001	UNCH						150	UNCH
1750 1850						0.0001 0.0001 0.0001	UNCH UNCH UNCH						204 7 200	UNCH UNCH UNCH
1900 2000 2050						0.0001 0.0001 0.0001	UNCH UNCH UNCH	.0000					4544 1	UNCH UNCH
2100 2150						0.0001 0.0001 0.0001	UNCH	.0000					844 878	UNCH
2200	0.0000	0.0000	0.0000/0.0000	0.0000/0.0000		0.0001 0.0001 0.0001	UNCH - 0.0001	.0002			13		349 5504 -	UNCH 13
2300 2300 2350						0.0001 0.0003 0.0005	- 0.0001 - 0.0002	.0032			57 		1286 + 2534	57 UNCH
2400	0.0000	0.0000 0.0000	0.0000/*0.000 0.0000B/*0.000	0.0000/*0.000 0.0000B/*0.00		0.0009 0.0016	- 0.0004 - 0.0008	.0092			6 2		1605 - 542	6 UNCH
2460	0.0000	0.0000	0.0000B/*0.000	0.0000B/*0.000		0.0018 0.0029	- 0.0009 - 0.0012	.0176			 85		102 6980 -	UNCH 76
2550	0.0100 0.0100	0.0100 0.0100	0.0100/*0.010 0.0100B/*0.010	0.0100/*0.010 0.0100B/*0.010		0.0049 0.0080	- 0.0020 - 0.0033	.0432 .0665			2 311		2154 4362 -	UNCH 5
2610 2650	0.0100	0.0100	/*0.0100A 0.0200B/*0.010	/*0.0100A 0.0200B/*0.010		0.0088 0.0129	- 0.0036 - 0.0050	.0722			17		253 1658 -	UNCH 10
2700	0.0200	0.0200	0.0200B/*0.020	0.0200B/*0.020		0.0199	- 0.0073	.1426			304		9423 -	49

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FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE	NOMINAL	PRICE IS THE	PREVIOUS DAY'S S	SETTLEMENT PRIC	Ε.								,
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTER	OPEN REST
LN P SEP1 2750	8	NYMEX NATURAL	GAS (EURO) OPTS 0.0400B/*0.031	0.0400B/*0.030		0.0297 - 0.0100	.1962			2466		9981 +	1971
2800 2830	0.0500	0.0500	0.0500B/*0.040 /*0.0500A	0.0500B/*0.040 /*0.0500A		0.0428 - 0.0130 0.0523 - 0.0150	.2592			385		3824 + 112	157 UNCH
2840 2850	0.0600	0.0600	/*0.0500A 0.0700B/*0.06	/*0.0500A 0.0700B/*0.06		0.0558 - 0.0157 0.0594 - 0.0164	.3149 .3293			426		100 4646 +	UNCH 392
2900 2930		0.0800	0.0800/0.0800	0.0800/0.0800		0.0798 - 0.0198 0.0939 NEW	.4042 .4502			42 8		4051 + 8 +	15 8
2950 2980		0.1000	0.1200B/0.1000 /0.1200A	0.1200B/0.1000 /0.1200A		0.1041 - 0.0232 0.1204 - 0.0252	.4808 .5264			182		2273 + 6	152 UNCH
3000 3010			/0.1300A /0.1300A /*0.1400A	/0.1300A /0.1300A /*0.1400A		0.1320 - 0.0265 0.1381 - 0.0272 0.1506 - 0.0284	.5563 .5710 .5998			1 		1624 + 20 175	UNCH UNCH
3030 3050 3080			/0.1600A /0.1800A	/0.1600A /0.1800A		0.1637 - 0.0295 0.1842 - 0.0312	.6279			4		83 + 12	2 UNCH
3100 3250			/0.1900A /0.3100A	/0.1900A /0.3100A		0.1985 - 0.0324 0.3190 - 0.0385	.6938 .8465					30 429	UNCH
3300 3350			/0.3500A /0.4000A	/0.3500A /0.4000A		0.3632 - 0.0398 0.4089 - 0.0408	.8822 .9100					7 1	UNCH UNCH
3400 3500			/0.4400A /0.5400A	/0.4400A /0.5400A		0.4556 - 0.0417 0.5515 - 0.0427	.9322 .9617					51 56	UNCH
3750 4000			/*0.8000A /*1.0500A	/*0.8000A /*1.0500A		0.7975 - 0.0436 1.0460 - 0.0437	.9895					100 255	UNCH
4150 4400			/*1.2000A /*1.4400A /*1.4900A	/*1.2000A /*1.4400A /*1.4900A		1.1953 - 0.0438 1.4444 - 0.0437 1.4942 - 0.0438	.9981 .9996 .9997					100 15 50	UNCH UNCH UNCH
4450 4500 4600			/*1.5400A /*1.5400A /*1.6400A	/*1.5400A /*1.5400A		1.5440 - 0.0438 1.6437 - 0.0438	.9998					50 90	UNCH
4800 6500			/*1.8400A /*3.5400A	/*1.8400A /*3.5400A		1.8430 - 0.0438 3.5375 - 0.0437	.9999 1.0000					25 10	UNCH
TOTA	ıL.		,	,						4311		71764 +	2596
0CT1 1500						0.0001 UNCH						150	UNCH
1750 1900						0.0001 UNCH 0.0001 UNCH 0.0001 UNCH	.0000					800 600 500	UNCH UNCH UNCH
1950 2000 2050						0.0001 UNCH 0.0001 UNCH 0.0001 UNCH	.0000					10838 536	UNCH UNCH
2100 2150						0.0001 - 0.0001 0.0002 - 0.0002	.0004					825 976	UNCH
2200 2250						0.0004 - 0.0002 0.0007 - 0.0003	.0036 .0061					800 12545	UNCH UNCH
2300 2350						0.0012 - 0.0005 0.0020 - 0.0008	.0100 .0160					805 3811	UNCH
2400 2450		0.0000	0.0000/*0.000 /*0.0100A	0.0000/*0.000 /*0.0100A		0.0032 - 0.0013 0.0050 - 0.0019	.0246			2 68		5603 - 2821 +	8
2460 2500	0.0100	0.0100	/*0.0100A 0.0100B/*0.010 /*0.0100A	/*0.0100A 0.0100B/*0.010 /*0.0100A		0.0055 - 0.0021 0.0077 - 0.0028	.0399			347	200	107 18761 -	UNCH 14
2550 2600			/*0.0100A /*0.0200A /*0.0200A	/*0.0100A /*0.0200A /*0.0200A		0.0116 - 0.0040 0.0171 - 0.0055 0.0185 - 0.0058	.0763 .1058 .1127			60 2 42		1579 + 3862 138 +	60 UNCH 33
2610 2650 2700	0.0200	0.0200 0.0300	0.0300B/*0.020 0.0400B/*0.030	0.0300B/*0.020 0.0400B/*0.030		0.0246 - 0.0072 0.0342 - 0.0093	.1423			3 204		6073 + 6221 +	1 15
2750 2800	0.0500	0.0500 0.0700	0.0500B/*0.040 0.0700B/0.0600	0.0500B/*0.040 0.0700B/0.0600		0.0465 - 0.0116 0.0616 - 0.0140	.2346			851 398	50	8498 - 7454 +	93 41
2840 2850		0.0800	/*0.0700A 0.0800B/0.080	/*0.0700A 0.0800B/0.080		0.0758 - 0.0161 0.0797 - 0.0166	.3362 .3483			270		100 6513 +	UNCH 92
2900 2950	0.1200	0.1200	/0.1000A 0.1400B/0.120	/0.1000A 0.1400B/0.120		0.1009 - 0.0192 0.1253 - 0.0218	.4097 .4722			553 228		4047 - 2910 +	97 180
2980 3000			/0.1400A /0.1500A	/0.1400A /0.1500A		0.1414 - 0.0234 0.1528 - 0.0244	.5095			470	150	2426 +	UNCH 195
3010 3050	0.1800	0.1800	/0.1500A 0.1900B/0.1800 /0.1900A	/0.1500A 0.1900B/0.1800 /0.1900A		0.1586 - 0.0249 0.1832 - 0.0268 0.1962 - 0.0277	.5462 .5936			42 25 		38 + 80 + 10	33 25 UNCH
3070 3080			/0.1900A /0.2000A /0.2100A	/0.1900A /0.2000A /0.2100A		0.2028 - 0.0282 0.2165 - 0.0290	.6166 .6280 .6499					7 35	UNCH
3100 3130 3140			/0.2300A /0.2400A	/0.2300A /0.2400A		0.2377 - 0.0301 0.2449 - 0.0306	.6832 .6919					2 20	UNCH
3150 3200			/0.2500A /0.2900A	/0.2500A /0.2900A		0.2523 - 0.0310 0.2903 - 0.0329	.7020 .7492					14 10	UNCH UNCH
3250 3260			/0.3300A /0.3300A	/0.3300A /0.3300A		0.3304 - 0.0346 0.3386 - 0.0349	.7915 .7992					425 1	UNCH UNCH
3300 3350			/0.3600A /0.4000A	/0.3600A /0.4000A		0.3723 - 0.0360 0.4159 - 0.0371	.8281 .8593					4 _6	UNCH
3400 3450			/0.4500A /0.4900A /0.5400A	/0.4500A /0.4900A /0.5400A		0.4607 - 0.0380 0.5065 - 0.0389 0.5533 - 0.0395	.8858 .9077 .9255					57 8 54	UNCH UNCH UNCH
3500 3550 3600			/0.5900A /0.6500A	/0.5900A /0.6500A		0.6006 - 0.0400 0.6486 - 0.0404	.9402					2	UNCH
3750 4000			/*0.8000A /*1.0500A	/*0.8000A /*1.0500A		0.7946 - 0.0410 1.0413 - 0.0415	.9743					100 255	UNCH
4150 4400			/*1.1900A /*1.4400A	/*1.1900A /*1.4400A		1.1901 - 0.0415 1.4384 - 0.0417	.9937 .9975					100 15	UNCH UNCH
4450 4500			/*1.4900A /*1.5400A	/*1.4900A /*1.5400A		1.4881 - 0.0416 1.5379 - 0.0416	.9976 .9976					50 50	UNCH
4600 4800			/*1.6400A /*1.8400A	/*1.6400A /*1.8400A		1.6373 - 0.0417 1.8362 - 0.0417	.9984					90 25	UNCH
6500 TOTA			/*3.5300A	/*3.5300A		3.5281 - 0.0416	1.0000			3565	400	10 111773 +	UNCH 477
NOV1 2000						0.0002 - 0.0001	.0015					3981	UNCH
2050 2150			 /*0_00004	 /*0_0000*		0.0004 - 0.0001 0.0010 - 0.0003	.0029					21	UNCH
2250 2300			/*0.0000A /*0.0000A /*0.0100A	/*0.0000A /*0.0000A /*0.0100A		0.0023 - 0.0008 0.0035 - 0.0011 0.0051 - 0.0015	.0148					5942 1211 686	UNCH
2350 2400 2450			/*0.0100A /*0.0100A /*0.0100A	/*0.0100A /*0.0100A /*0.0100A		0.0051 - 0.0015 0.0074 - 0.0020 0.0104 - 0.0028	.0305 .0424 .0572			 432		686 107 564 +	UNCH UNCH 432
2450 2460 2500			/*0.0100A /*0.0100A	/*0.0100A /*0.0100A		0.0104 - 0.0028 0.0111 - 0.0030 0.0145 - 0.0037	.0606			 18	500	100 11330 +	UNCH 500
2550 2600	. ====	0.0300	/*0.0200A 0.0300B/*0.030	/*0.0200A 0.0300B/*0.030		0.0198 - 0.0048 0.0267 - 0.0061	.0993 .1272			2		20 2232 +	UNCH 2
2610 2650	0.0300	0.0300	/*0.0300A 0.0400B/*0.030	/*0.0300A 0.0400B/*0.030		0.0283 - 0.0063 0.0353 - 0.0076	.1334 .1596			732		100 1276 +	UNCH 537
2700 2720			/*0.0400A /*0.0500A	/*0.0400A /*0.0500A		0.0459 - 0.0092 0.0508 - 0.0098	.1965			110		1877 55	UNCH
2750 2800			/*0.0600A /0.0700A	/*0.0600A /0.0700A		0.0587 - 0.0110 0.0739 - 0.0128	.2375			110		5684 2733	UNCH
2840 2850		 0.1100	/*0.0800A /0.0900A 0.1200B/0.110	/*0.0800A /0.0900A 0.1200B/0.110		0.0878 - 0.0143 0.0916 - 0.0146 0.1119 - 0.0165	.3200 .3298 .3793			 25		100 766 2637	UNCH UNCH UNCH
2900 2950 3000		0.1100 	/0.1300A /0.1500A	/0.1300A /0.1500A		0.1119 - 0.0163 0.1349 - 0.0182 0.1604 - 0.0201	.4301 .4810			1		672 - 2787	UNCH UNCH
3010 3030	0.1700	0.1700 0.1800	#0.1700B/*0.10 0.1900B/0.1700	#0.1700B/*0.10 0.1900B/0.1700		0.1657 NEW 0.1769 - 0.0212	.4911			45 45		45 + 88 +	45 45
3050 3080	0.2100	0.2100	/0.1800A #0.2200B/*0.20	/0.1800A #0.2200B/*0.20		0.1883 - 0.0220 0.2062 NEW	.5312 .5606			40		276 40 +	UNCH 40
3100 3250			/0.2100A /0.3200A	/0.2100A /0.3200A		0.2187 - 0.0237 0.3228 - 0.0285	.5798 .7111					74 375	UNCH
3400 3500			/0.4400A /0.5300A /*0.7700A	/0.4400A /0.5300A		0.4430 - 0.0324 0.5299 - 0.0342	.8136 .8648					50 41 80	UNCH
3750 4000			/*0.7700A /*1.0100A /*1.4000A	/*0.7700A /*1.0100A /*1.4000A		0.7621 - 0.0370 1.0047 - 0.0380 1.3993 - 0.0384	.9411 .9733 .9905					80 255 15	UNCH UNCH UNCH
4400 4450 4500			/*1.4000A /*1.4500A /*1.5000A	/*1.4000A /*1.4500A /*1.5000A		1.4488 - 0.0384 1.4983 - 0.0385	.9912					50 50	UNCH UNCH
THE	INFORMATIO	N CONTAINED IN	THIS REPORT IS COM	PILED FOR THE CON	/ENIENCE OF THE	USER AND IS FURNISHED	WITHOUT R	ESPONSI	BILITY FO	OR ACCURA			

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THE	NOMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	E.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		O INTER	PEN REST
LN PU		NYMEX NATURAL	GAS (EURO) OPTS										
4600 4800			/*1.6000A /*1.8000A	/*1.6000A /*1.8000A		1.5975 - 0.0384 1.7959 - 0.0384	.9937 .9956					90 25	UNCH UNCH
6500 TOTA			/3.4800A	/3.4800A		3.4841 - 0.0386	.9999			1450	500	10 46447 +	UNCH 1600
DEC18	8					0.0011 0.0001	0057				200	2055	205
2000 2050						0.0011 - 0.0004 0.0016 - 0.0005	.0057				300	3955 +	285 UNCH
2250 2300			/0.0100A /0.0100A	/0.0100A /0.0100A		0.0056 - 0.0015 0.0075 - 0.0019	.0256				250	41666 1092 +	UNCH 250
2350 2400			/0.0100A /*0.0100A	/0.0100A /*0.0100A		0.0100 - 0.0023 0.0130 - 0.0030	.0431 .0544					465 557	UNCH
2450 2460			/*0.0200A /*0.0200A	/*0.0200A /*0.0200A		0.0169 - 0.0036 0.0178 - 0.0038	.0683 .0715					130 101	UNCH
2500 2550		0.0200	0.0200/0.0200 /*0.0300A	0.0200/0.0200 /*0.0300A		0.0217 - 0.0044 0.0274 - 0.0054	.0847 .1035			20 	500	26184 + 104	20 UNCH
2600 2610			/*0.0300A /*0.0400A	/*0.0300A /*0.0400A		0.0344 - 0.0064 0.0359 - 0.0067	.1252 .1298					2446 100	UNCH UNCH
2650 2700			/*0.0400A /0.0500A	/*0.0400A /0.0500A		0.0427 - 0.0076 0.0527 - 0.0087	.1497 .1773				500	1334 + 1343	500 UNCH
2720 2750			/0.0600A /0.0600A	/0.0600A /0.0600A		0.0572 - 0.0092 0.0645 - 0.0098	.1892 .2078				150	55 1963	UNCH UNCH
2800 2840			/0.0800A /*0.0900A	/0.0800A /*0.0900A		0.0781 - 0.0110 0.0904 - 0.0120	.2407 .2686					2156 100	UNCH UNCH
2850 2900			/0.0900A /0.1100A	/0.0900A /0.1100A		0.0937 - 0.0123 0.1112 - 0.0136	.2758 .3126					94 2075	UNCH UNCH
2950 3000	0.1600	0.1600	/0.1300A 0.1600/0.1500	/0.1300A 0.1600/0.1500		0.1309 - 0.0148 0.1525 - 0.0162	.3509			1	250	57 3223 +	UNCH 250
3050 3100			/0.1700A /0.2000A	/0.1700A /0.2000A		0.1764 - 0.0174 0.2023 - 0.0185	.4296 .4692			1 		466 282	UNCH UNCH
3150 3200			/0.2200A /0.2500A	/0.2200A /0.2500A		0.2302 - 0.0196 0.2599 - 0.0208	.5082 .5463					63 100	UNCH UNCH
3250 3400			/0.2800A /0.3900A	/0.2800A /0.3900A		0.2915 - 0.0219 0.3963 - 0.0248	.5832 .6840					375 51	UNCH UNCH
3500 3750			/0.4700A /*0.6900A	/0.4700A /*0.6900A		0.4732 - 0.0267 0.6846 - 0.0301	.7418 .8508					41 80	UNCH UNCH
4000 4400			/*0.9200A /*1.3000A	/*0.9200A /*1.3000A		0.9138 - 0.0319 1.2981 - 0.0331	.9167 .9666					255 15	UNCH UNCH
4450 4500			/*1.3500A /*1.4000A	/*1.3500A /*1.4000A		1.3469 - 0.0331 1.3959 - 0.0331	.9701 .9728					50 50	UNCH UNCH
4600 4800			/*1.5000A /*1.6900A	/*1.5000A /*1.6900A		1.4939 - 0.0333 1.6907 - 0.0335	.9778 .9848					90 25	UNCH
6000 6500			/2.8800A	/2.8800A		2.8780 - 0.0336 3.3736 - 0.0336	.9975 .9985					2500 10	UNCH UNCH
TOTA	L									22	1950	93656 +	1305
JAN19 2000						0.0032 - 0.0003	.0122					3999	UNCH
2200 2250						0.0090 - 0.0010 0.0114 - 0.0012	.0315 .0389					4200 2558	UNCH UNCH
2300 2350			/*0.0200A	/*0.0200A		0.0143 - 0.0014 0.0177 - 0.0017	.0477 .0576					506 70	UNCH
2400 2450			/0.0200A /*0.0300A	/0.0200A /*0.0300A		0.0217 - 0.0021 0.0266 - 0.0024	.0690 .0824					34197 137	UNCH
2500 2550			/*0.0300A /0.0400A	/*0.0300A /0.0400A		0.0322 - 0.0028 0.0387 - 0.0033	.0972 .1138			109		16756 + 21	109 UNCH
2600 2650			/*0.0500A /0.0600A	/*0.0500A /0.0600A		0.0463 - 0.0040 0.0553 - 0.0048	.1324 .1532				150 	3039 36	UNCH UNCH
2700 2720		0.0700	0.0700/0.0700 /0.0700A	0.0700/0.0700 /0.0700A		0.0660 - 0.0058 0.0708 - 0.0061	.1764 .1863			5 		65 + 55	5 UNCH
2750 2800	0.0800	0.0800	0.0800B/0.0800 /0.0900A	0.0800B/0.0800 /0.0900A		0.0783 - 0.0068 0.0922 - 0.0078	.2015			10		4356 761	UNCH UNCH
2810 2850			/0.0900A /0.1100A	/0.0900A /0.1100A		0.0951 - 0.0081 0.1075 - 0.0091	.2337					22 50	UNCH
2870 2900			/0.1100A /0.1200A	/0.1100A /0.1200A		0.1142 - 0.0096 0.1247 - 0.0105	.2678					20 480	UNCH
2950 3000			/0.1400A /0.1600A	/0.1400A /0.1600A		0.1440 - 0.0117 0.1652 - 0.0127	.3160				100 100	725 + 5041 -	100 100
3050 3100			/0.1800A /0.2100A	/0.1800A /0.2100A		0.1880 - 0.0138 0.2126 - 0.0148	.3785					953 359	UNCH
3150 3250		0.3000	/0.2300A 0.3000B/0.290	/0.2300A 0.3000B/0.290		0.2389 - 0.0158 0.2961 - 0.0175	.4413 .5024			5		2 155 +	UNCH 5
3500 3750			/*0.4600A	/*0.4600A		0.4637 - 0.0211 0.6590 - 0.0235	.6386					50 25	UNCH
4000 4650						0.8729 - 0.0257 1.4758 - 0.0290	.8233 .9320					230 55	UNCH
4750 5150						1.5718 - 0.0292 1.9598 - 0.0298	.9411					125 50	UNCH
7000 TOTA						3.7823 - 0.0303	.9955			129	350	10 79108 +	UNCH 119
FEB19	9												
2000 2200						0.0079 - 0.0005 0.0197 - 0.0012	.0246 .0550					475 10	UNCH UNCH
2250 2350		0.0300	0.0300/0.0300	0.0300/0.0300		0.0242 - 0.0015 0.0359 - 0.0022	.0657 .0916			1 		2070 + 70	1 UNCH
2400 2450			/0.0400A 	/0.0400A 		0.0433 - 0.0025 0.0516 - 0.0030	.1069 .1234					657 127	UNCH UNCH
2500 2550			/0.0600A	/0.0600A		0.0611 - 0.0034 0.0717 - 0.0040	.1414 .1606					3681 19	UNCH UNCH
2600 2650			/0.0800A	/0.0800A		0.0838 - 0.0046 0.0975 - 0.0053	.1813				150 	6107 32	UNCH UNCH
2700 2720			/*0.1100A	/*0.1100A		0.1129 - 0.0060 0.1194 - 0.0064	.2267 .2362					60 55	UNCH UNCH
2750 2800			/*0.1300A 	/*0.1300A 		0.1298 - 0.0067 0.1482 - 0.0076	.2508 .2755					2028 361	UNCH UNCH
2810 2850						0.1521 - 0.0077 0.1684 - 0.0084	.2806 .3009					22 250	UNCH UNCH
2870 2900			/*0.1900A	/*0.1900A		0.1769 - 0.0088 0.1903 - 0.0092	.3111 .3266					20 310	UNCH UNCH
2950 3000			/*0.2400A	/*0.2400A		0.2136 - 0.0100 0.2385 - 0.0108	.3524 .3781					305 1684	UNCH UNCH
3050 3150						0.2649 - 0.0116 0.3219 - 0.0132	.4036 .4535					268 302	UNCH UNCH
3250 3500						0.3842 - 0.0147 0.5588 - 0.0179	.5008 .6050					175 50	UNCH UNCH
3750 4000						0.7542 - 0.0202 0.9637 - 0.0220	.6887 .7545					25 230	UNCH
4650 4750						1.5478 - 0.0251 1.6410 - 0.0254	.8663 .8779					55 125	UNCH
5150 7000						2.0193 - 0.0262 3.8180 - 0.0280	.9140					50 10	UNCH
TOTA	L									1	150	19633 +	1
MAR19 1500						0.0010 - 0.0001	.0035					2500	UNCH
1750 2000						0.0044 - 0.0004 0.0149 - 0.0011	.0138 .0413			100 100	500 500	26880 + 30806 +	600 600
2050 2100						0.0185 - 0.0013 0.0227 - 0.0017	.0499 .0596					27 1020	UNCH UNCH
2150 2200						0.0278 - 0.0021 0.0338 - 0.0025	.0708 .0835					100 312	UNCH UNCH
2250 2300			 /0.0500A	/0.0500A		0.0409 - 0.0029 0.0490 - 0.0033	.0977 .1132					10363 4	UNCH UNCH
2350 2400			/0.0700A	/0.0700A		0.0581 - 0.0039 0.0685 - 0.0044	.1299 .1480					120 17179	UNCH UNCH
2450						0.0801 - 0.0050	.1673					130	UNCH
				RS OR OMISSIONS SI	HALL NOT BE MADI	USER AND IS FURNISHED WE THE BASIS FOR ANY CLAI					CY OR CO	NTENT. IT	15

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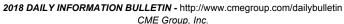


Side 90

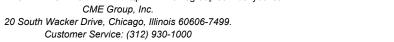
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THE N	IOMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRIC	E.								
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
LN PUT MAR19	Г	NYMEX NATURAL	GAS (EURO) OPTS										
2500 2550			/0.1000A	/0.1000A		0.0934 - 0.0057 0.1086 - 0.0061	.1880 .2101					20727 4	UNCH UNCH
2600			/*0.1300A	/*0.1300A		0.1254 - 0.0064 0.1436 - 0.0069	.2329				150	4526 32	UNCH
2650 2700						0.1632 - 0.0075	.2563					310	UNCH
2720 2750			/0.1900A	/0.1900A		0.1714 - 0.0079 0.1843 - 0.0084	.2898 .3043					55 1765	UNCH UNCH
2800 2810			/*0.2100A 	/*0.2100A 		0.2069 - 0.0092 0.2116 - 0.0093	.3286 .3335					361 22	UNCH UNCH
2850 2870						0.2310 - 0.0100 0.2411 - 0.0103	.3529 .3627					251 20	UNCH
2900						0.2567 - 0.0107 0.2838 - 0.0114	.3772					614 673	UNCH
2950 3000			/0.3100A	/0.3100A		0.3122 - 0.0121	.4247				100	5773 +	100
3050 3150						0.3418 - 0.0128 0.4043 - 0.0142	.4478 .4920					152 3 <u>75</u>	UNCH
3250 3500						0.4712 - 0.0154 0.6542 - 0.0182	.5335 .6241					75 50	UNCH UNCH
3700 3750						0.8131 - 0.0198 0.8542 - 0.0202	.6838 .6971					100 25	UNCH
4000 4650						1.0660 - 0.0217 1.6513 - 0.0245	.7553					230 55	UNCH
4750						1.7442 - 0.0248 2.1205 - 0.0258	.8679					125 50	UNCH
5150 7000						3.9126 - 0.0275	.9733					10	UNCH
TOTAL										200	1250	125821 +	1300
APR19 1750						0.0044 - 0.0001	.0187					2	UNCH
1850 1950						0.0081 - 0.0002 0.0137 - 0.0005	.0324 .0518					1 4	UNCH UNCH
2000 2100	0.0200	0.0200	0.0200/0.0200	0.0200/0.0200		0.0175 - 0.0005 0.0271 - 0.0008	.0643 .0947			15 		2794 + 25	15 UNCH
2200 2250						0.0398 - 0.0012 0.0477 - 0.0016	.1329 .1556					80 3428	UNCH
2300						0.0571 - 0.0020	.1812					100	UNCH
2350 2400						0.0681 - 0.0024 0.0807 - 0.0030	.2097					80 207	UNCH
2500 2550			/*0.1100A /*0.1300A	/*0.1100A /*0.1300A		0.1114 - 0.0043 0.1297 - 0.0050	.3100 .3477					3460 204	UNCH
2600 2650						0.1501 - 0.0057 0.1725 - 0.0066	.3869 .4272				150 	1982 1385	UNCH UNCH
2700 2750						0.1971 - 0.0076 0.2239 - 0.0084	.4680 .5086					988 2011	UNCH
2800						0.2527 - 0.0093 0.2588 - 0.0094	.5486					486 22	UNCH
2810 2850						0.2836 - 0.0101	.5874					50	UNCH
2870 2900						0.2964 - 0.0106 0.3163 - 0.0110	.6051 .6248					20 45	UNCH
2950 3000						0.3508 - 0.0118 0.3869 - 0.0127	.6603 .6939					125 200	UNCH UNCH
3400 3500						0.7201 - 0.0174 0.8116 - 0.0182	.8828 .9098					100 50	UNCH UNCH
3750 4000						1.0477 - 0.0193 1.2895 - 0.0200	.9524 .9731					25 230	UNCH
4650						1.9263 - 0.0204	.9889					55 125	UNCH
4750 5150						2.4176 - 0.0204	.9900					50	UNCH
7000 TOTAL						4.2374 - 0.0203	.9982			15	150	10 18344 +	UNCH 15
MAY19													
1500 2000						0.0006 UNCH 0.0166 - 0.0004	.0031 .0652					500 475	UNCH UNCH
2100 2200						0.0263 - 0.0007 0.0399 - 0.0012	.0978 .1402					25 75	UNCH
2250						0.0487 - 0.0015 0.0589 - 0.0019	.1659					5390 1055	UNCH
2300 2350						0.0708 - 0.0024	.2257					80	UNCH
2400 2500						0.0846 - 0.0029 0.1180 - 0.0041	.2599					207 3375	UNCH
2550 2600						0.1377 - 0.0048 0.1595 - 0.0056	.3756 .4173				150	104 1894	UNCH UNCH
2650 2700						0.1835 - 0.0064 0.2096 - 0.0073	.4598 .5023					130 685	UNCH UNCH
2750 2800						0.2380 - 0.0082 0.2684 - 0.0091	.5441 .5848					411 916	UNCH
2810						0.2748 - 0.0092 0.3009 - 0.0099	.5952					22 50	UNCH
2850 2870						0.3143 - 0.0103	.6436					20	UNCH
2900 2950						0.3352 - 0.0108 0.3714 - 0.0116	.6612 .6960					45 125	UNCH
3000 3500						0.4091 - 0.0124 0.8436 - 0.0176	.7285 .9267					150 50	UNCH UNCH
3750 4000						1.0817 - 0.0187 1.3241 - 0.0192	.9618 .9779					25 230	UNCH UNCH
4650 4750						1.9605 - 0.0194 2.0586 - 0.0195	.9902					55 125	UNCH
5150 7000						2.4510 - 0.0194 4.2673 - 0.0193	.9936					50 10	UNCH
TOTAL						1.2075 0.0133	.3302				150	16279	onen
JUN19						0.0008 UNCH	.0039					1000	UNCH
1500 2000						0.0184 - 0.0008	.0673					400	UNCH
2100 2150						0.0284 - 0.0013 0.0348 - 0.0015	.0987 .1177					25 270	UNCH
2200 2250						0.0423 - 0.0018 0.0510 - 0.0022	.1392 .1632					75 1510	UNCH UNCH
2350 2400						0.0725 - 0.0031 0.0856 - 0.0036	.2186 .2500					80 207	UNCH
2500 2550						0.1172 - 0.0049 0.1359 - 0.0055	.3197					2835 204	UNCH
2600						0.1566 - 0.0061 0.1794 - 0.0068	.3965				150	1644 333	UNCH
2650 2700						0.2043 - 0.0075	.4367					682	UNCH
2750 2800						0.2313 - 0.0083 0.2604 - 0.0091	.5177 .5572					411 111	UNCH UNCH
2810 2850						0.2664 - 0.0093 0.2914 - 0.0099	. 5668 . 5956					22 50	UNCH UNCH
2870 2900						0.3043 - 0.0103 0.3243 - 0.0108	.6141 .6324					20 45	UNCH
2950						0.3591 - 0.0116 0.3955 - 0.0124	.6672					125 150	UNCH
3000 3500						0.8198 - 0.0174	.9109					50	UNCH
3750 4000						1.0551 - 0.0185 1.2959 - 0.0191	.9526					25 243	UNCH
4650 4750						1.9302 - 0.0193 2.0280 - 0.0194	.9881 .9892					55 125	UNCH UNCH
5150 7000						2.4195 - 0.0194 4.2314 - 0.0194	.9920 .9978					50 10	UNCH UNCH
TOTAL											150	10757	
JUL19 1900						0.0108 - 0.0008	.0410					300	UNCH
2000 2100						0.0175 - 0.0011 0.0269 - 0.0017	.0631					400 25	UNCH
						USER AND IS FURNISHED							
				ORS OR OMISSIONS S	HALL NOT BE MAD	E THE BASIS FOR ANY CLA							





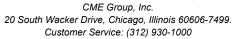




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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY	GLOBEX® VOLUME		INTE	OPEN REST
LN PUT		NYMEX NATURAL	. GAS (EURO) OPT	'S					VOLUME				
JUL19 2200						0.0399 - 0.0025	.1299					75	UNCH
2250 2350						0.0481 - 0.0029 0.0682 - 0.0039	.1524 .2042					1520 70	UNCH
2400 2500						0.0805 - 0.0044 0.1101 - 0.0057	.2339					207 2910	UNCH
2550 2600						0.1276 - 0.0065 0.1471 - 0.0071	.3359				150	1544	UNCH
2650 2700						0.1686 - 0.0078 0.1921 - 0.0086 0.2178 - 0.0093	.4124					762	UNCH
2750 2800						0.2178 - 0.0093 0.2454 - 0.0101 0.2512 - 0.0102	.4920 .5314 .5403					411 111 22	UNCH UNCH UNCH
2810 2850						0.2312 - 0.0102 0.2751 - 0.0109 0.2876 - 0.0111	.5698					50 20	UNCH
2870 2900 2950						0.3067 - 0.0111 0.3401 - 0.0124	.6070					45 125	UNCH
3000 3500						0.3754 - 0.0130 0.7912 - 0.0177	.6761					150 50	UNCH
3750 4000						1.0245 - 0.0186 1.2640 - 0.0191	.9458					25 243	UNCH
4650 4750						1.8964 - 0.0193 1.9940 - 0.0194	.9872					55 125	UNCH
5150 7000						2.3847 - 0.0194 4.1931 - 0.0194	.9912					50 10	UNCH
TOTAL						1.1331 0.0131	.5575				150	9311	onen
AUG19 2000						0.0191 - 0.0010	.0661					400	UNCH
2100 2200						0.0290 - 0.0015 0.0425 - 0.0021	.0955 .1330					25 75	UNCH UNCH
2250 2350						0.0508 - 0.0026 0.0713 - 0.0035	.1549 .2058					1510 70	UNCH UNCH
2400 2500						0.0836 - 0.0041 0.1133 - 0.0052	.2345					207 2878	UNCH UNCH
2550 2600						0.1308 - 0.0059 0.1502 - 0.0065	.3335				150	4 1544	UNCH
2650 2700						0.1715 - 0.0072 0.1948 - 0.0079	.4075 .4460				100	2 762 +	UNCH 80
2750 2800						0.2201 - 0.0086 0.2474 - 0.0093	.4847 .5230					411 111	UNCH
2810 2850						0.2531 - 0.0095 0.2766 - 0.0101	.5317					22 50	UNCH
2870 2900						0.2889 - 0.0103 0.3078 - 0.0108	.5778					20 45	UNCH
2950 3000						0.3406 - 0.0116 0.3753 - 0.0123	.6317 .6647					125 150	UNCH
3500 3750						0.7861 - 0.0171 1.0174 - 0.0183	.8897					50 25	UNCH
4000 4650						1.2556 - 0.0188 1.8857 - 0.0193	.9647					243 55	UNCH
4750 5150						1.9832 - 0.0193 2.3731 - 0.0192	.9868					125 50	UNCH
7000 TOTAL						4.1774 - 0.0194	.9968				250	10 8969 +	UNCH 80
SEP19 2000						0.0227 - 0.0008	.0746					400	UNCH
2100 2100 2200						0.0337 - 0.0012 0.0485 - 0.0017	.1056					25 75	UNCH
2250 2350						0.0576 - 0.0020 0.0796 - 0.0029	.1672					1640 70	UNCH
2400 2500						0.0928 - 0.0034 0.1241 - 0.0046	.2480					207 2703	UNCH
2550 2600						0.1424 - 0.0053 0.1626 - 0.0058	.3463				150	4 1819	UNCH
2650 2700						0.1846 - 0.0064 0.2086 - 0.0070	.4189					2 682	UNCH
2750 2800						0.2345 - 0.0076 0.2622 - 0.0084	.4938					411 111	UNCH
2810 2850						0.2681 - 0.0086 0.2920 - 0.0091	.5395					22 50	UNCH
2870 2900						0.3044 - 0.0094 0.3234 - 0.0099	.5840 .6016					20 45	UNCH
2950 3000						0.3565 - 0.0107 0.3913 - 0.0115	.6351 .6669					125 150	UNCH
3500 3750						0.8011 - 0.0163 1.0311 - 0.0179	.8850 .9351					50 25	UNCH UNCH
4000 4650						1.2682 - 0.0185 1.8963 - 0.0191	.9620 .9853					243 55	UNCH UNCH
4750 5150						1.9935 - 0.0192 2.3825 - 0.0191	.9864 .9894					125 50	UNCH UNCH
7000 TOTAL						4.1827 - 0.0193	.9964				150	10 9119	UNCH
OCT19						0.0222 - 0.0013	.0721					475	UNCU
2000 2100						0.0329 - 0.0019	.1020					25	UNCH
2200 2250						0.0472 - 0.0026 0.0560 - 0.0030 0.0773 - 0.0039	.1394 .1612 .2111					75 11390 70	UNCH
2350 2400						0.0773 - 0.0039 0.0900 - 0.0044 0.1202 - 0.0057	.2390					207 3153	UNCH UNCH UNCH
2500 2550 2600						0.1202 - 0.0057 0.1378 - 0.0064 0.1573 - 0.0070	.3343				150	3153 4 1544	UNCH UNCH UNCH
2600 2650 2700						0.1786 - 0.0076 0.2017 - 0.0084	.4053					2 857	UNCH
2750 2800						0.2269 - 0.0090 0.2539 - 0.0097	.4792					2061 111	UNCH
2810 2850						0.2595 - 0.0098 0.2827 - 0.0106	.5243					22 50	UNCH
2870 2900						0.2948 - 0.0108 0.3134 - 0.0113	.5688					20 45	UNCH
2950 3000						0.3457 - 0.0121 0.3797 - 0.0128	.6205					125 150	UNCH
3500 3500 3750						0.7837 - 0.0177 1.0121 - 0.0189	.8768					50 25	UNCH
4000 4650						1.2480 - 0.0196 1.8741 - 0.0203	.9587					230 55	UNCH
4750 5150						1.9711 - 0.0202 2.3593 - 0.0202	.9856					125 50	UNCH
7000 TOTAL						4.1558 - 0.0201	.9958				150	10 20931	UNCH
NOV19													
2000 2250						0.0181 - 0.0020 0.0488 - 0.0042	.0602 .1416					225 420	UNCH
2350 2400						0.0687 - 0.0055 0.0807 - 0.0062	.1880					70 200	UNCH
2500 2550						0.1092 - 0.0076 0.1258 - 0.0083	.2720					1805 4	UNCH
2600 2650						0.1440 - 0.0091 0.1639 - 0.0099	.3359				150 	1544 2	UNCH
2700 2750						0.1856 - 0.0107 0.2090 - 0.0115	.4045					9 366	UNCH
2800 2810						0.2340 - 0.0123 0.2392 - 0.0125	.4755					111 22 50	UNCH
2850 THE TN	EOPMATTO	N CONTAINED IN	THIS DEDORT IS (NIVENTENCE OF THE II	0.2608 - 0.0130	.5108	PESDONST	RTITTY E			50	UNCH
		N CONTAINED IN E USER ON THE CO									CI UK CC	TILLINI. II	13





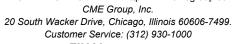
Side 92

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	OMINAL	PRICE IS THE	PREVIOUS DAY'S	SETTLEMENT PRI	CE.						ALL INSTA	,
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME \	PNT VOLUME	INT	OPEN EREST
LN PUT NOV19	-	NYMEX NATURAL	GAS (EURO) OPTS					VOLUME				
2870 2900						0.2720 - 0.0133 0.2893 - 0.0136	.5261 .5454				20 45	UNCH UNCH
2950 3000						0.3194 - 0.0142 0.3509 - 0.0149	.5793 .6122				125 170	UNCH UNCH
3500 3750						0.7391 - 0.0190 0.9632 - 0.0198	.8526 .9140				50 25	UNCH UNCH
4000 4650						1.1964 - 0.0200 1.8184 - 0.0203	.9489 .9839				230 55	UNCH
4750 5150						1.9149 - 0.0203 2.3016 - 0.0203	.9862 .9915				125 50	UNCH
7000						4.0939 - 0.0201	.9982			150	10 5733	UNCH
TOTAL DEC19										130	3/33	
2000 2250						0.0135 - 0.0012 0.0372 - 0.0027	.0440 .1070				225 420	UNCH UNCH
2350						0.0524 - 0.0036 0.0618 - 0.0041	.1435				70 200	UNCH
2400 2500						0.0844 - 0.0053	.2123				1705	UNCH
2550 2600						0.0978 - 0.0061 0.1129 - 0.0068	.2669			150	1544	UNCH
2650 2700						0.1297 - 0.0074 0.1481 - 0.0082	.2965				9	UNCH
2750 2800						0.1684 - 0.0089 0.1903 - 0.0097	.3590				416 111	UNCH
2810 2850						0.1949 - 0.0098 0.2139 - 0.0105	.3979 .4242				22 50	UNCH
2870 2900						0.2239 - 0.0107 0.2393 - 0.0111	.4374 .4573				20 45	UNCH UNCH
2950 3000						0.2662 - 0.0119 0.2947 - 0.0124	.4898 .5217				125 310	UNCH UNCH
3500 3750						0.6518 - 0.0173 0.8642 - 0.0186	.7763 .8542				50 25	UNCH UNCH
4000 4650						1.0889 - 0.0193 1.6996 - 0.0199	.9055 .9675				230 55	UNCH UNCH
4750 5150						1.7951 - 0.0200 2.1790 - 0.0202	.9720 .9843				125 50	UNCH
7000						3.9658 - 0.0201	.9978			150	10 5823	UNCH
TOTAL JAN20										130	3023	
2000						0.0107 - 0.0017 0.0340 - 0.0039	.0345				150 290	UNCH UNCH
2250 2400						0.0597 - 0.0058 0.0831 - 0.0073	.1457				75 873	UNCH
2500 2550						0.0970 - 0.0080	.2123				6	UNCH
2600 2650						0.1292 - 0.0094	.2625				31	UNCH
2710 2720						0.1514 - 0.0103 0.1553 - 0.0105	.2942				1 11	UNCH
2730 2750						0.1593 - 0.0106 0.1674 - 0.0109	.3049 .3158				11 432	UNCH UNCH
2800 2840						0.1888 - 0.0117 0.2071 - 0.0122	.3431 .3653				135 11	UNCH UNCH
2850 2900						0.2118 - 0.0123 0.2363 - 0.0130	.3708				50 16	UNCH UNCH
3000 4450						0.2898 - 0.0142 1.4613 - 0.0202	.4535 .8619				121 50	UNCH UNCH
5150 5200						2.1037 - 0.0203 2.1505 - 0.0202	.9338 .9373				25 75	UNCH UNCH
TOTAL											2364	
FEB20 2000						0.0223 UNCH	.0574				150	UNCH
2250 2400						0.0573 - 0.0004 0.0911 - 0.0011	.1255 .1810				290 75	UNCH UNCH
2500 2550						0.1201 - 0.0016 0.1366 - 0.0019	.2233				873 6	UNCH
2600 2650						0.1544 - 0.0023 0.1736 - 0.0026	.2686				1 31	UNCH
2710 2720						0.1984 - 0.0032 0.2028 - 0.0032	.3209				1 11	UNCH
2730 2750						0.2072 - 0.0032 0.2161 - 0.0034	.3306				11 432	UNCH
2800						0.2394 - 0.0039	.3647				135	UNCH
2840 2850						0.2640 - 0.0044	.3892				11 50	UNCH
2900 3000						0.2900 - 0.0048 0.3457 - 0.0057	.4136 .4616				16 121	UNCH
4450 5150						1.5072 - 0.0150 2.1431 - 0.0167	.8374 .9107				50 25	UNCH
5200 TOTAL						2.1893 - 0.0168	.9147				75 2364	UNCH
MAR20												
2000 2250						0.0333 - 0.0002 0.0786 - 0.0009	.0792 .1589				150 290	UNCH UNCH
2400 2500						0.1201 - 0.0018 0.1543 - 0.0025	.2199 .2645				75 873	UNCH UNCH
2550 2600						0.1735 - 0.0028 0.1940 - 0.0032	.2878 .3114				6 1	UNCH UNCH
2650 2710						0.2158 - 0.0036 0.2438 - 0.0041	.3353				3 <u>1</u> 1	UNCH
2720 2730						0.2486 - 0.0043 0.2535 - 0.0044	.3691				11 11	UNCH
2750 2800						0.2635 - 0.0045 0.2893 - 0.0050	.3836				432 135	UNCH
2840						0.3108 - 0.0054 0.3163 - 0.0055	.4270				11 50	UNCH
2850 2900						0.3163 - 0.0053 0.3447 - 0.0058 0.4047 - 0.0069	.4553				16 121	UNCH
3000 4450						1.5893 - 0.0155	.8443				50	UNCH
5150 5200						2.2260 - 0.0168 2.2722 - 0.0170	.9135 .9171				25 75	UNCH UNCH
TOTAL APR20											2364	
2000						0.0393 + 0.0031	.1207			50	200 +	
2250 2300						0.0943 + 0.0023 0.1098 + 0.0017	.2472				290 25	UNCH
2400 2500						0.1460 + 0.0006 0.1892 - 0.0009	.3453 .4166				75 648	UNCH
2550 2600						0.2134 - 0.0017 0.2394 - 0.0024	.4532 .4902				6 1	UNCH UNCH
2650 2700						0.2670 - 0.0033 0.2962 - 0.0042	.5272 .5601				31 30	UNCH UNCH
2710 2720						0.3022 - 0.0044 0.3083 - 0.0046	.5715 .5788				1 11	UNCH UNCH
2730 2750						0.3145 - 0.0047 0.3270 - 0.0051	.5805 .5939				11 457	UNCH
2800 2840						0.3592 - 0.0059 0.3861 - 0.0066	.6265 .6652				85 11	UNCH
2850 2900						0.3930 - 0.0067 0.4280 - 0.0074	.6577				50 16	UNCH
3000						0.5019 - 0.0085 1.8180 - 0.0063	.7420				81 50	UNCH
4450 5150						2.4881 - 0.0057	.9981				25	UNCH
THE IN	IFORMATIO	N CONTAINED IN T	THIS REPORT IS COM	PILED FOR THE CO	NVENIENCE OF THE U	SER AND IS FURNISHED W	/ITHOUT RESPONS	IBILITY F	OR ACCURAC	CY OR CO	NTENT. IT	r is

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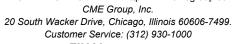


FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		(INTER	OPEN REST
LN PUT APR20			_ GAS (EURO) OPT										
5200 TOTAL						2.5361 - 0.0056	.9981				50	75 2179 +	UNCH 50
MAY20 2000						0.0382 + 0.0030	.1233				50	200 +	50
2250 2300						0.0938 + 0.0019 0.1097 + 0.0014	.2576					290 25	UNCH
2400 2500						0.1468 UNCH 0.1914 - 0.0016	.3624 .4385					75 648	UNCH UNCH
2550 2600						0.2164 - 0.0025 0.2432 - 0.0034	.4775 .5167					6 1	UNCH
2650 2700						0.2718 - 0.0042 0.3019 - 0.0053	.5559					31 30	UNCH
2710 2720						0.3082 - 0.0053 0.3145 - 0.0055 0.3208 - 0.0058	.6027 .6104 .6096					1 11 11	UNCH UNCH UNCH
2730 2750 2800						0.3338 - 0.0060 0.3670 - 0.0070	.6233					457 85	UNCH
2840 2850						0.3948 - 0.0075 0.4019 - 0.0076	.7012 .6884					11 50	UNCH
2900 3000						0.4380 - 0.0083 0.5140 - 0.0093	.7183 .7724					16 81	UNCH
4450 5150						1.8409 - 0.0061 2.5100 - 0.0055	.9944 .9987					50 25	UNCH UNCH
5200 TOTAL						2.5578 - 0.0056	.9987				50	75 2179 +	UNCH 50
JUN20						0.0351 + 0.0030	.1141				50	215 +	50
2000 2250 2300						0.0331 + 0.0030 0.0871 + 0.0021 0.1021 + 0.0016	.2418					290 25	UNCH UNCH
2400 2500						0.1372 + 0.0010 0.1372 + 0.0002 0.1797 - 0.0013	.3434					75 648	UNCH
2550 2600						0.2037 - 0.0021 0.2294 - 0.0031	.4566					6 1	UNCH
2650 2700						0.2569 - 0.0040 0.2861 - 0.0049	.5348 .5689					31 30	UNCH UNCH
2710 2720						0.2921 - 0.0052 0.2982 - 0.0053	.5816					1 11	UNCH
2730 2750						0.3043 - 0.0056 0.3169 - 0.0058 0.3493 - 0.0068	.5903					11 457	UNCH
2800 2840 2850						0.3763 - 0.0068 0.3763 - 0.0074 0.3831 - 0.0076	.6383 .6810 .6708					85 11 50	UNCH UNCH UNCH
2900 3000						0.4184 - 0.0083 0.4928 - 0.0093	.7016 .7576					16 81	UNCH
4450 5150						1.8114 - 0.0061 2.4789 - 0.0055	.9934 .9987					50 25	UNCH
5200 TOTAL						2.5266 - 0.0055	.9987				50	75 2194 +	UNCH 50
JUL20						0.0324 . 0.0020	1053					215	50
2000 2250						0.0324 + 0.0029 0.0810 + 0.0022 0.0951 + 0.0018	.1053 .2260 .2567				50 	215 + 290 25	50 UNCH UNCH
2300 2400 2500						0.1282 + 0.0018 0.1685 - 0.0010	.3234					75 648	UNCH
2550 2600						0.1913 - 0.0019 0.2159 - 0.0029	.4337					6 1	UNCH
2650 2700						0.2423 - 0.0038 0.2704 - 0.0046	.5108					31 30	UNCH
2710 2720						0.2761 - 0.0049 0.2821 - 0.0050	.5574 .5650					1 11	UNCH UNCH
2730 2750						0.2880 - 0.0052 0.3000 - 0.0056	.5678 .5819					11 457	UNCH
2800 2840						0.3314 - 0.0065 0.3575 - 0.0072	.6164 .6570					85 11	UNCH
2850 2900				 		0.3641 - 0.0074 0.3985 - 0.0080 0.4709 - 0.0094	.6496 .6811 .7390					50 16 81	UNCH UNCH UNCH
3000 4450 5150						1.7790 - 0.0063 2.4449 - 0.0056	.9929					50 25	UNCH
5200 TOTAL						2.4925 - 0.0056	.9987				 50	75 2194 +	UNCH 50
AUG20													
2000 2250						0.0327 + 0.0029 0.0810 + 0.0024	.1050				50 	215 + 290	UNCH
2300 2400						0.0949 + 0.0019 0.1277 + 0.0007 0.1675 - 0.0008	.2539 .3196 .3911					25 75 648	UNCH UNCH UNCH
2500 2550 2600						0.1901 - 0.0016 0.2145 - 0.0024	.4284					6 1	UNCH
2650 2700						0.2405 - 0.0033 0.2682 - 0.0042	.5046 .5400					31 30	UNCH
2710 2720						0.2740 - 0.0044 0.2798 - 0.0045	.5508 .5585					1 11	UNCH UNCH
2730 2750						0.2856 - 0.0048 0.2976 - 0.0051	.5614					11 457	UNCH
2800 2840						0.3285 - 0.0061 0.3544 - 0.0067 0.3610 - 0.0069	.6098 .6500					85 11 50	UNCH
2850 2900 3000						0.3610 - 0.0069 0.3948 - 0.0077 0.4666 - 0.0088	.6429 .6744 .7323					50 16 81	UNCH UNCH UNCH
4450 5150						1.7682 - 0.0054 2.4324 - 0.0047	.9919					50 25	UNCH
5200 TOTAL						2.4798 - 0.0047	.9987				50	75 2194 +	UNCH 50
SEP20						0.0350 + 0.0021	1107				50	215 .	F.O.
2000 2250 2300						0.0350 + 0.0031 0.0852 + 0.0023 0.0996 + 0.0019	.1107 .2322 .2628				50 	215 + 290 25	50 UNCH UNCH
2400 2500						0.1333 + 0.0006 0.1741 - 0.0009	.3293					75 648	UNCH
2550 2600						0.1972 - 0.0016 0.2219 - 0.0025	.4387 .4767					6 1	UNCH
2650 2700						0.2484 - 0.0033 0.2766 - 0.0041	.5150 .5495					31 30	UNCH UNCH
2710 2720						0.2824 - 0.0043 0.2883 - 0.0045	.5612					1 11	UNCH
2730 2750						0.2942 - 0.0048 0.3063 - 0.0050	.5707					11 457	UNCH
2800 2840 2850						0.3376 - 0.0059 0.3636 - 0.0066 0.3703 - 0.0068	.6185 .6604 .6510					85 11 50	UNCH UNCH UNCH
2850 2900 3000						0.4045 - 0.0084 0.4768 - 0.0084	.6819					16 81	UNCH
4450 5150						1.7777 - 0.0045 2.4405 - 0.0037	.9919 .9981					50 25	UNCH
5200 TOTAL						2.4878 - 0.0037	.9987				 50	75 2194 +	UNCH 50
ост20						0.0345 . 0.0033	1074				F0	200	F0
2000 2250 2300						0.0345 + 0.0033 0.0834 + 0.0030 0.0973 + 0.0026	.1074 .2245 .2539				50 	200 + 290 25	50 UNCH UNCH
2400						0.0373 + 0.0026 0.1301 + 0.0016 SER AND IS FURNISHED	.3182					75	UNCH
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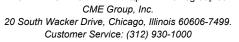




FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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LN PUT OCT20 2500		HIGH/LOW	HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
	NYMEX NATURAL	GAS (EURO) OPT	s				7020112				
2550	 				0.1697 + 0.0004 0.1921 - 0.0002	.3881 .4246				648 6	UNCH UNCH
2600 2650	 				0.2162 - 0.0010 0.2420 - 0.0017	.4617 .4993				1 31	UNCH UNCH
2700 2710	 				0.2694 - 0.0026 0.2751 - 0.0026	.5340 .5446				30 1	UNCH UNCH
2720 2730	 				0.2808 - 0.0029 0.2866 - 0.0030	.5522 .5550				11 11	UNCH UNCH
2750 2800	 				0.2984 - 0.0033 0.3289 - 0.0041	.5688 .6026				457 85	UNCH UNCH
2840 2850	 				0.3544 - 0.0047 0.3610 - 0.0048	.6425 .6351				11 50	UNCH UNCH
2900 3000	 				0.3944 - 0.0054 0.4651 - 0.0065	.6663 .7238				16 81	UNCH UNCH
4450 5150	 				1.7561 - 0.0019 2.4172 - 0.0009	.9910 .9981				50 25 75	UNCH UNCH
5200 TOTAL	 				2.4645 - 0.0009	.9981			50	75 2179 +	UNCH 50
NOV20					0.000	0705				150	
2000 2250	 				0.0222 - 0.0004 0.0658 - 0.0009	.0785				150 290	UNCH
2400 2500	 				0.1107 - 0.0011 0.1498 - 0.0012	.2825				75 658	UNCH
2550 2600	 				0.1720 - 0.0013 0.1959 - 0.0015	.3860				6 1	UNCH
2650 2710	 				0.2216 - 0.0015 0.2545 - 0.0014	.4574 .5001				31 1	UNCH
2720 2730	 				0.2601 - 0.0016 0.2659 - 0.0015	.5072 .5123				11 11	UNCH UNCH
2750 2800	 				0.2776 - 0.0015 0.3078 - 0.0016	.5256 .5579				457 85	UNCH
2840 2850	 				0.3329 - 0.0017 0.3394 - 0.0016	.5909 .5888				11 50	UNCH UNCH
2900 3000	 				0.3724 - 0.0016 0.4418 - 0.0016	.6183 .6729				16 81	UNCH UNCH
4450 5150	 				1.7025 - 0.0009 2.3600 - 0.0007	.9807 .9961				50 25	UNCH UNCH
5200 TOTAL	 				2.4071 - 0.0007	.9966				75 2084	UNCH
DEC20											
2000 2250	 				0.0161 - 0.0004 0.0493 - 0.0008	.0559 .1422				150 290	UNCH UNCH
2400 2500	 				0.0846 - 0.0011 0.1160 - 0.0012	.2177 .2761				75 658	UNCH UNCH
2550 2600	 				0.1342 - 0.0014 0.1542 - 0.0014	.3071				6 1	UNCH
2650 2710	 				0.1758 - 0.0015 0.2039 - 0.0016	.3716 .4112				31 1	UNCH
2720 2730	 				0.2088 - 0.0016 0.2138 - 0.0016	.4178 .4244				11 11	UNCH
2750 2800	 				0.2239 - 0.0017 0.2503 - 0.0017	.4377				457 85	UNCH
2840 2850	 				0.2725 - 0.0016 0.2781 - 0.0017	.4973				11 50	UNCH
2900 3000	 				0.3073 - 0.0017 0.3696 - 0.0018	.5332				16 81	UNCH
4450 5150	 				1.5826 - 0.0010 2.2356 - 0.0008	.9660 .9919				50 25	UNCH
5200	 				2.2825 - 0.0008	.9927				75 2084	UNCH
TOTAL JAN21										2004	
2000 2250	 				0.0164 + 0.0005 0.0475 + 0.0009	.0513				25 465	UNCH
2500 2600	 				0.1091 + 0.0014 0.1450 + 0.0014	.2391				300 20	UNCH
2700	 				0.1879 + 0.0014 0.2118 + 0.0014	.3504 .3791				12 50	UNCH
2750 2800	 				0.2373 + 0.0014 0.2645 + 0.0014	.4078				31 260	UNCH
2850 5200	 				2.1955 - 0.0003	.9616				100 1263	UNCH
TOTAL FEB21										1203	
2000 2250	 				0.0255 + 0.0004 0.0653 + 0.0007	.0696 .1508				25 465	UNCH
2500 2600	 				0.1373 + 0.0007 0.1771 + 0.0007	.2655				300 20	UNCH
2700 2750	 				0.2230 + 0.0006 0.2483 + 0.0006	.3709				12 50	UNCH
2800	 				0.2750 + 0.0005 0.3032 + 0.0004	.4242				31 260	UNCH
2850 5200	 				2.2261 - 0.0020	.9521				100 1263	UNCH
TOTAL MAR21										1203	
2000 2250	 				0.0388 + 0.0003 0.0901 + 0.0002	.0962 .1893				25 465	UNCH UNCH
2500 2500 2600	 				0.1772 UNCH 0.2227 - 0.0002	.3105				300 20	UNCH
2700	 				0.2741 - 0.0004 0.3019 - 0.0005	.4146				12 50	UNCH
2750 2800	 				0.3019 - 0.0003 0.3311 - 0.0008 0.3621 - 0.0009	.4650				281 260	UNCH
2850 5200	 				2.3024 - 0.0038	.9518				100 1513	UNCH
TOTAL APR21										1313	
2000	 				0.0571 + 0.0007 0.1236 + 0.0007	.1530 .2841				25 465	UNCH
2250 2500	 				0.1236 + 0.0007 0.2263 UNCH 0.2519 - 0.0001	.4470				250 250	UNCH
2550 2600	 				0.2319 - 0.0001 0.2788 - 0.0005 0.3374 - 0.0008	.5166				20 12	UNCH
2700 2750	 				0.3687 - 0.0010 0.4013 - 0.0013	.6066				300 31	UNCH
2800 2850	 				0.4351 - 0.0016	.6624				260	UNCH
5200 TOTAL	 				2.5139 - 0.0061	.9910				100 1713	UNCH
MAY21	 				0.0566 + 0.0007	.1570				25	LINCU
2000	 				0.1240 + 0.0006	.2943				465	UNCH
2500 2600	 				0.2293 - 0.0002 0.2831 - 0.0006	.5381				250 20	UNCH
2700 2750	 				0.3431 - 0.0011 0.3751 - 0.0013	.6281				12 300	UNCH
2800 2850	 				0.4085 - 0.0016 0.4431 - 0.0019	.6829 .6840				31 260	UNCH
5200 TOTAL	 				2.5301 - 0.0061	.9922				100 1463	UNCH
JUN21					0.0516 - 0.0000	1457				35	
2000 2250	 				0.0516 + 0.0009 0.1151 + 0.0011	.1457				25 465	UNCH
2500	 				0.2157 + 0.0008	.4472				250	UNCH





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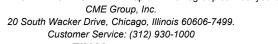
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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

THE N	NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE. GLOBEX OPEN OUTCRY GLOBEX OPEN OUTCRY OPEN OUTCRY SETT.PRICE EXER OPEN GLOBEX® PNT OPEN OPEN OPEN RANGE HIGH/LOW HIGH/LOW CLOSE RANGE & PT.CHGE. DELTA CISES OUTCRY VOLUME INTEREST VOLUME											
								OUTCRY				
LN PUT JUN21	-	NYMEX NATURAL	L GAS (EURO) OPT	S								
2600 2700						$ \begin{array}{rrrr} 0.2675 & + & 0.0005 \\ 0.3257 & + & 0.0001 \end{array} $.5201 .5934				20 12	UNCH UNCH
2750 2800						0.3571 UNCH 0.3898 - 0.0002	.6137 .6661				300 31	UNCH UNCH
2850 5200						0.4236 - 0.0006 2.5007 - 0.0044	.6713 .9921				260 100	UNCH UNCH
TOTAL JUL21											1463	
2000 2250						$\begin{array}{cccc} 0.0481 & + \ 0.0008 \\ 0.1081 & + \ 0.0010 \end{array}$.1358 .2625				25 465	UNCH UNCH
2500 2600						0.2040 + 0.0008 0.2537 + 0.0006	.4261				250 20	UNCH
2700 2750						0.3098 + 0.0002 0.3401 - 0.0001	.5703 .5938				12 300	UNCH
2800 2850						0.3718 - 0.0002 0.4049 - 0.0003	.6429 .6525				31 260	UNCH
5200 TOTAL						2.4674 - 0.0043	.9914				100 1463	UNCH
AUG21						0.0479 + 0.0009	.1338				25	UNCU
2000 2250 2500						0.1070 + 0.0009 0.2015 + 0.0007	.1338 .2577 .4184				25 465 250	UNCH UNCH UNCH
2600 2700						0.2505 + 0.0006 0.3056 + 0.0001	.4890				20 12	UNCH
2750 2800						0.3356 + 0.0001 0.3669 - 0.0002	.5851 .6328				300 31	UNCH UNCH
2850 5200						0.3995 - 0.0004 2.4516 - 0.0044	.6438 .9910				260 100	UNCH UNCH
TOTAL											1463	
SEP21 2000						0.0492 + 0.0009 0.1090 + 0.0010	.1358				25 465	UNCH UNCH
2250 2500 2600						0.2037 + 0.0007 0.2526 + 0.0003	.4197				250 20	UNCH
2700 2750						0.3078 + 0.0001 0.3378 UNCH	.5617				12 300	UNCH
2800 2850						0.3690 - 0.0002 0.4015 - 0.0004	.6334 .6436				31 260	UNCH UNCH
5200 TOTAL						2.4482 - 0.0044	.9906				100 1463	UNCH
ост21						0.0479 + 0.0008	.1301				25	UNCU
2000 2250 2500						0.1057 + 0.0008 0.1057 + 0.0010 0.1974 + 0.0008	.2486				465 250	UNCH UNCH UNCH
2600 2700						0.2445 + 0.0005 0.2979 + 0.0003	.4706				20 12	UNCH
2750 2800						0.3269 + 0.0001 0.3572 - 0.0002	.5662				300 31	UNCH
2850 5200						0.3889 - 0.0003 2.4189 - 0.0043	.6246 .9896				260 100	UNCH UNCH
TOTAL											1463	
NOV21 2000 2250						0.0422 + 0.0008 0.0928 + 0.0010	.1143 .2211				25 465	UNCH
2500 2600						0.1790 + 0.0008 0.2241 + 0.0006	.3664				250 20	UNCH
2700 2750						0.2753 + 0.0003 0.3029 + 0.0002	.4974				12 50	UNCH
2800 2850						0.3319 + 0.0001 0.3621 UNCH	.5644				31 260	UNCH
5200 TOTAL						2.3660 - 0.0039	.9731				100 1213	UNCH
DEC21						0.0332 + 0.0007	.0866				25	UNCU
2000 2250						0.0332 + 0.0007 0.0738 + 0.0009 0.1429 + 0.0010	.0866 .1711 .2910				25 465 250	UNCH UNCH UNCH
2500 2600 2700						0.1806 + 0.0009 0.2239 + 0.0007	.3472				20 12	UNCH
2750 2800						0.2477 + 0.0007 0.2728 + 0.0006	.4365 .4671				50 31	UNCH
2850 5200						0.2992 + 0.0004 2.2359 - 0.0038	.4958 .9603				260 100	UNCH UNCH
TOTAL JAN22											1213	
1500 2500						0.0024 UNCH 0.1413 - 0.0006	.0079				50 175	UNCH UNCH
2550 2600						0.1589 - 0.0006 0.1777 - 0.0007	.2787				50 10	UNCH
2700 2750						0.2192 - 0.0009 0.2418 - 0.0009	.3521 .3774				12 60	UNCH
TOTAL											357	
FEB22 1500						0.0041 UNCH 0.1655 - 0.0007	.0121 .2743				50 175	UNCH
2500 2550 2600						0.1655 - 0.0007 0.1844 - 0.0008 0.2046 - 0.0008	.2970				50 10	UNCH UNCH UNCH
2700 2750						0.2482 - 0.0010 0.2717 - 0.0011	.3678				12 60	UNCH
TOTAL											357	-
MAR22 1500						0.0067 UNCH 0.1983 - 0.0009	.0184 .3064				50 175	UNCH UNCH
2500 2550						0.1983 - 0.0009 0.2191 - 0.0009 0.2410 - 0.0010	.3293				50 10	UNCH UNCH
2600 2700 2750						0.2881 - 0.0012 0.3133 - 0.0013	.3999				12 60	UNCH
TOTAL							,				357	3
APR22 1500						0.0064 - 0.0003	.0218				50	UNCH
2500 2550						0.2375 - 0.0031 0.2624 - 0.0033	.4246				175 50	UNCH
2600 2700						0.2887 - 0.0034 0.3450 - 0.0036 0.3748 - 0.0038	.4867 .5412 .5810				10 12 60	UNCH UNCH UNCH
2750 2800						0.3748 - 0.0038	.5936				25 382	UNCH
TOTAL MAY22												
1500 2500						0.0052 - 0.0003 0.2330 - 0.0032	.0192				50 175	UNCH
2550 2600						0.2583 - 0.0034 0.2850 - 0.0035	.4723				50 10	UNCH
2700 2750						0.3423 - 0.0039 0.3728 - 0.0039 0.4045 - 0.0039	.5725 .6061 .6152				12 60 25	UNCH UNCH UNCH
2800 TOTAL					-	0.4043 - 0.0039	.6152				382	UNCH
JUN22 1500						0.0045 - 0.0002	.0168				50	UNCH
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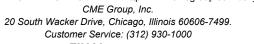




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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY	GLOBEX® VOLUME	INT	OPEN EREST
LN PUT		NYMEX NATURA	L GAS (EURO) OPTS					VOLUME			
JUN22 2300 2500						0.1361 - 0.0025 0.2202 - 0.0032	.2972 .4228			 1 175	UNCH
2550 2600						0.2447 - 0.0035 0.2707 - 0.0035	.4557			 50 10	UNCH
2700 2750						0.3265 - 0.0038 0.3563 - 0.0038	.5558			 12 60	UNCH
2800						0.3872 - 0.0040	.6023			 25 383	UNCH
TOTAL JUL22										303	
1500 2300						0.0041 - 0.0002 0.1283 - 0.0025	.0153 .2823			 50 1	UNCH UNCH
2500 2550						0.2092 - 0.0032 0.2329 - 0.0034	.4051 .4375			 175 50	UNCH UNCH
2600 2700						0.2580 - 0.0035 0.3121 - 0.0038	.4702 .5366			 10 12	UNCH
2750 2800						0.3411 - 0.0039 0.3712 - 0.0040	.5700 .5863			 60 25	UNCH
TOTAL										383	
AUG22 1500						0.0040 - 0.0002	.0149			 50	UNCH
2300 2500						0.1252 - 0.0026 0.2047 - 0.0032	.2758 .3971			 1 175	UNCH UNCH
2550 2600						0.2280 - 0.0034 0.2527 - 0.0035	.4291 .4616			 50 10	UNCH UNCH
2700 2750						0.3061 - 0.0038 0.3346 - 0.0039	.5275 .5607			 12 60	UNCH UNCH
2800 TOTAL						0.3644 - 0.0040	.5784			 25 383	UNCH
SEP22						0.0041 0.0003	0151			F0	uncu
1500 2300						0.0041 - 0.0002 0.1257 - 0.0026	.0151			 50 1	UNCH
2500 2550						0.2050 - 0.0033 0.2283 - 0.0034 0.2529 - 0.0036	.3965 .4284 .4608			 175 50 10	UNCH UNCH UNCH
2600 2700						0.3061 - 0.0038 0.3346 - 0.0039	.5265			 12 60	UNCH
2750 2800						0.3642 - 0.0041	.5774			 25 383	UNCH
TOTAL OCT22										363	
1500 2300						0.0039 - 0.0002 0.1205 - 0.0023	.0142 .2632			 50 1	UNCH UNCH
2500 2550						0.1972 - 0.0029 0.2197 - 0.0031	.3804			 175 50	UNCH
2600 2700						0.2436 - 0.0032 0.2954 - 0.0034	.4431 .5074			 10 12	UNCH UNCH
2750 2800						0.3231 - 0.0035 0.3521 - 0.0035	.5400 .5603			 60 25	UNCH UNCH
TOTAL										383	
NOV22 1500						0.0033 - 0.0002	.0119			 50	UNCH
2300 2500						0.1078 - 0.0022 0.1791 - 0.0028	.2359 .3461			 1 175	UNCH UNCH
2550 2600						0.2003 - 0.0029 0.2227 - 0.0031	.3756			 50 10	UNCH UNCH
2700 2750						0.2715 - 0.0033 0.2978 - 0.0033	.4671 .4983			 12 60	UNCH UNCH
TOTAL DEC22										358	
1500						0.0023 - 0.0002 0.0839 - 0.0019	.0080 .1824			 50 1	UNCH UNCH
2300 2500 2550						0.1423 - 0.0026 0.1601 - 0.0027	.2757			 175 50	UNCH
2600 2700						0.1792 - 0.0029 0.2211 - 0.0031	.3279			 10 12	UNCH
2750 TOTAL						0.2439 - 0.0033	.4107			 60 358	UNCH
JAN23											
2300 2500						0.0963 - 0.0005 0.1497 - 0.0008	.1721 .2467			 1 175	UNCH UNCH
2650 2700						0.1947 - 0.0009 0.2122 - 0.0010	.3094 .3322			 10 12	UNCH UNCH
5250 5500						2.0856 - 0.0035 2.3040 - 0.0033	.9468 .9583			 30 50	UNCH UNCH
TOTAL FEB23										278	
2300 2500						0.1117 - 0.0003 0.1683 - 0.0006	.1868 .2612			 1 175	UNCH UNCH
2650 2700						0.2160 - 0.0007 0.2354 - 0.0008	.3235			 10 12	UNCH
5250 5500						2.1088 - 0.0025 2.3260 - 0.0026	.9399 .9524			 30 50	UNCH
TOTAL						2.3200 0.0020	.5521			278	onen
MAR23 2300						0.1323 - 0.0005	.2105			 1	UNCH
2500 2650						0.1919 - 0.0007 0.2467 - 0.0008	.2872 .3521			 175 10	UNCH UNCH
2700 5250						0.2682 - 0.0008 2.1629 - 0.0026	.3751 .9390			 12 30	UNCH UNCH
5500 TOTAL						2.3797 - 0.0026	.9512			 50 278	UNCH
APR23						0 1376 - 0 0006	2734			 1	IINCU
2300 2500						0.1376 - 0.0006 0.2167 - 0.0008 0.2893 - 0.0011	.2734 .3839 .4724			 175 10	UNCH UNCH UNCH
2650 2700 5250						0.2893 - 0.0011 0.3159 - 0.0012 2.3465 - 0.0027	.5025			 10 12 30	UNCH UNCH UNCH
5500						2.5659 - 0.0027	.9786			 50 278	UNCH
TOTAL MAY23										270	
2300 2500						0.1437 - 0.0006 0.2246 - 0.0009	.2825			 1 175	UNCH UNCH
2650 2700						0.2984 - 0.0011 0.3254 - 0.0012	.4829 .5132			 10 12	UNCH
5250 5500						2.3577 - 0.0027 2.5765 - 0.0029	.9724 .9789			 30 50	UNCH
TOTAL										278	-
JUN23 2300						0.1390 - 0.0006	.2717			 175	UNCH
2500 2650						0.2176 - 0.0009 0.2896 - 0.0011	.3802			 175 10	UNCH
2700 5250						0.3159 - 0.0012 2.3317 - 0.0027	.4970 .9695			 12 30	UNCH
5500 TOTAL						2.5498 - 0.0028	.9765			 50 278	UNCH
JUL23						0 1242 0 0000	2607			 4	IINIC:
			THIS REPORT IS COM	IPILED FOR THE CO	NVENIENCE OF THE U	0.1342 - 0.0006 SER AND IS FURNISHED		IBILITY F	OR ACCURA	NTENT. IT	IS
ACCEPT	ED BY TH	E USER ON THE C	CONDITION THAT ERRO	ORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLA . All rights reserved	IM, DEMAND, OR	CAUSE FOR	ACTION.		





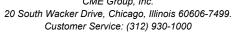
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THE N	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CE.							
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTE	OPEN EREST
LN PUT JUL23		NYMEX NATURAL	GAS (EURO) OPTS	5								
2500 2650						0.2104 - 0.0009 0.2805 - 0.0010	.3660				175 10	UNCH
2700 5250						0.3062 - 0.0011 2.3035 - 0.0027 2.5210 - 0.0027	.4800 .9668 .9742				12 30 50	UNCH UNCH UNCH
5500 TOTAL						2.3210 - 0.0027	.3742				278	UNCH
AUG23 2300						0.1320 - 0.0006	.2546				1	UNCH
2500 2650						0.2069 - 0.0008 0.2758 - 0.0010 0.3010 - 0.0012	.3579				175 10	UNCH
2700 5250						0.3010 - 0.0012 2.2856 - 0.0027 2.5024 - 0.0028	.4701 .9646 .9724				12 30 50	UNCH UNCH UNCH
5500 TOTAL						2.3024 0.0020	.5724				278	ONCH
SEP23 2500						0.2081 - 0.0008	.3571				175	UNCH
2650 2700						0.2768 - 0.0011 0.3020 - 0.0011	.4401				10 12 30	UNCH
5250 5500						2.2791 - 0.0027 2.4953 - 0.0027	.9632 .9712				50 50 277	UNCH
TOTAL OCT23												
2500 2650						0.2009 - 0.0009 0.2677 - 0.0011	.3435				175 10	UNCH
2700 5250						0.2922 - 0.0012 2.2513 - 0.0026 2.4667 - 0.0028	.4522 .9600 .9685				12 30 50	UNCH UNCH UNCH
5500 TOTAL						2.4007 - 0.0028	.9083				277	UNCH
NOV23 2500						0.1846 - 0.0008	.3152				175	UNCH
2650 2700						0.2474 - 0.0010 0.2706 - 0.0011	.3922				10 12	UNCH
5250 5500						2.1959 - 0.0027 2.4103 - 0.0028	.9541 .9637				30 50 277	UNCH
TOTAL DEC23												
2500 2650						0.1490 - 0.0006 0.2030 - 0.0008	.2556 .3238				175 10	UNCH
2700 5250 5500						0.2231 - 0.0009 2.0709 - 0.0026 2.2834 - 0.0027	.3477 .9393 .9516				12 30 50	UNCH UNCH UNCH
TOTAL						2.2034 0.0027	.5510				277	ONCH
JAN24 2250						0.0731 - 0.0004	.1351				45	UNCH
2500 2650						0.1296 - 0.0005 0.1753 - 0.0007	.2181				50 20	UNCH
5300 TOTAL						2.0147 - 0.0027	.9294				60 175	UNCH
FEB24 2250						0.0775 - 0.0004	.1420				40	UNCH
2500 2650						0.1359 - 0.0007 0.1834 - 0.0007	.2270				50 20	UNCH
5300 TOTAL						2.0322 - 0.0027	.9306				60 170	UNCH
MAR24 2250						0.0872 - 0.0004	.1585				36	UNCH
2500 2650						0.1507 - 0.0007 0.2019 - 0.0008	.2497 .3146				50 20	UNCH UNCH
5300 TOTAL						2.0814 - 0.0026	.9357				60 166	UNCH
APR24 2250						0.1279 - 0.0006	.2317				42	UNCH
2500 2650						0.2145 - 0.0009 0.2801 - 0.0011	.3490				50 20	UNCH UNCH
5300 TOTAL						2.2736 - 0.0028	.9577				60 172	UNCH
MAY24 2250						0.1329 - 0.0007	.2390				42	UNCH
2500 2650						0.2215 - 0.0009 0.2882 - 0.0011	.3577				50 20	UNCH
5300 TOTAL						2.2840 - 0.0027	.9579				60 172	UNCH
JUN24 2250						0.1294 - 0.0006	.2307				37	UNCH
2500 2650						0.2156 - 0.0009 0.2807 - 0.0011	.3461 .4235				50 20	UNCH UNCH
5300 TOTAL						2.2585 - 0.0028	.9551				60 167	UNCH
JUL24 2250						0.1251 - 0.0006	.2214				37	UNCH
2500 2650						0.2086 - 0.0009 0.2719 - 0.0011	.3331 .4084				50 20	UNCH UNCH
5300 TOTAL						2.2307 - 0.0027	.9517				60 167	UNCH
AUG24 2250						0.1232 - 0.0007	.2165				33	UNCH
2500 2650						0.2054 - 0.0009 0.2677 - 0.0010	.3259 .3998				50 20	UNCH UNCH
5300 TOTAL						2.2124 - 0.0027	.9492				60 163	UNCH
SEP24 2250						0.1243 - 0.0006	.2167				36	UNCH
2500 2650						0.2063 - 0.0009 0.2685 - 0.0011	.3253				50 20	UNCH UNCH
5300 TOTAL						2.2063 - 0.0028	.9480				60 166	UNCH
ост24						0.1204 - 0.0006	.2084				41	UNCH
2250 2500 2650						0.1204 - 0.0008 0.2002 - 0.0009 0.2607 - 0.0010	.3138				50 20	UNCH UNCH
5300 TOTAL						2.1797 - 0.0027	.9444				60 171	UNCH
NOV24						0.1120 - 0.0005	.1912				38	UNCH
2250 2500 2650						0.1120 - 0.0003 0.1871 - 0.0008 0.2438 - 0.0010	.2898				50 20	UNCH UNCH
5300 TOTAL						2.1260 - 0.0027	.9365				60 168	UNCH
DEC24						0.0016 0.0005	.1546				45	LINCU
2250 2500 2650						0.0916 - 0.0005 0.1563 - 0.0007 0.2055 - 0.0009	.1546 .2397 .2987				45 50 20	UNCH UNCH UNCH
						SER AND IS FURNISHED						
				RORS OR OMISSIONS	SHALL NOT BE MADE	THE BASIS FOR ANY CLA. All rights reserved	IM, DEMAND, OR					

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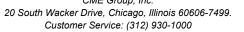
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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

THE NO	OMINAL	PRICE IS THE	PREVIOUS DAY'S	S SETTLEMENT PRI	CCE.								
•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
LN PUT DEC24		NYMEX NATURAI	L GAS (EURO) OPTS			2.0066 - 0.0027	.9209					60	UNCH
5300 TOTAL JAN25						2.0000 - 0.0027	.9209					175	UNCH
2250 TOTAL						0.0635 - 0.0003	.1183					45 45	UNCH
FEB25 2250 TOTAL						0.0675 - 0.0003	.1246					40 40	UNCH
MAR25 2250						0.0762 - 0.0004	.1395					36 36	UNCH
TOTAL APR25 2250						0.1140 - 0.0005	.2061					42 42	UNCH
TOTAL MAY25 2250						0.1186 - 0.0006	.2130					42 42 42	UNCH
TOTAL JUN25 2250						0.1152 - 0.0006	.2056					42 37	UNCH
TOTAL JUL25												37	
2250 TOTAL AUG25						0.1114 - 0.0006	.1977					37 37	UNCH
2250 TOTAL						0.1090 - 0.0005	.1921					33 33	UNCH
SEP25 2250 TOTAL						0.1097 - 0.0005	.1922					36 36	UNCH
OCT25 2250 TOTAL						0.1057 - 0.0006	.1842					41 41	UNCH
NOV25 2250 TOTAL						0.0970 - 0.0005	.1679					38 38	UNCH
DEC25 2250						0.0781 - 0.0004	.1345					45 45	UNCH
TOTAL JAN26 2250						0.0661 - 0.0003	.1129					45 45	UNCH
TOTAL FEB26 2250						0.0697 - 0.0004	.1183					45	UNCH
TOTAL MAR26												40	
2250 TOTAL APR26						0.0778 - 0.0004	.1314					36 36	UNCH
2250 TOTAL MAY26						0.1142 - 0.0006	.1920					42 42	UNCH
2250 TOTAL						0.1189 - 0.0005	.1987					42 42	UNCH
JUN26 2250 TOTAL						0.1157 - 0.0006	.1923					37 37	UNCH
JUL26 2250 TOTAL						0.1124 - 0.0005	.1857					37 37	UNCH
AUG26 2250 TOTAL						0.1096 - 0.0005	.1800					33 33	UNCH
SEP26 2250						0.1100 - 0.0006	.1797					36 36	UNCH
TOTAL 0CT26 2250						0.1059 - 0.0005	.1720					41	UNCH
TOTAL NOV26 2250						0.0971 - 0.0005	.1565					41 38 38	UNCH
TOTAL DEC26 2250						0.0794 - 0.0004	.1268					38 45	UNCH
TOTAL JAN27												45	
2250 TOTAL FEB27						0.0646 - 0.0003	.1043					45 45	UNCH
2250 TOTAL						0.0678 - 0.0003	.1090					40 40	UNCH
MAR27 2250 TOTAL						0.0750 - 0.0004	.1203					36 36	UNCH
APR27 2250 TOTAL						0.1114 - 0.0005	.1793					42 42	UNCH
MAY27 2250 TOTAL						0.1158 - 0.0005	.1855					42 42	UNCH
JUN27 2250						0.1125 - 0.0005	.1793					37 37	UNCH
TOTAL JUL27 2250						0.1091 - 0.0006	.1729					37	UNCH
TOTAL AUG27 2250						0.1062 - 0.0005	.1672					37 33	UNCH
TOTAL SEP27							. 20/ 2					33 33	
THE IN	FORMATIO	N CONTAINED IN	THIS REPORT IS CO	OMPILED FOR THE CO	NVENIENCE OF THE U	JSER AND IS FURNISHED W	VITHOUT R	ESPONSI	BILITY F	OR ACCURA	ACY OR CON	TENT. IT	IS

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PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
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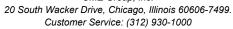
PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INTEI	OPEN REST
LN PUT SEP27	•	NYMEX NATURA	L GAS (EURO) OPTS										
2250 TOTAL						0.1063 - 0.0005	.1666					36 36	UNCH
OCT27 2250						0.1019 - 0.0004	.1586					41	UNCH
TOTAL						0.1013	.1500					41	onen
NOV27 2250						0.0932 - 0.0005	.1440					38 38	UNCH
TOTAL DEC27													
2250 TOTAL						0.0772 - 0.0004	.1176					45 45	UNCH
JAN28 2250						0.0661 - 0.0003	.0996					45	UNCH
TOTAL FEB28												45	
2250 TOTAL						0.0692 - 0.0004	.1038					40 40	UNCH
MAR28						0.0760 - 0.0004	.1139					36	UNCH
2250 TOTAL						0.0700 0.0004	.1133					36	ONCH
APR28 2250						0.1143 - 0.0005	.1737					42 42	UNCH
TOTAL MAY28													
2250 TOTAL						0.1183 - 0.0006	.1793					42 42	UNCH
JUN28 2250						0.1146 - 0.0005	.1726					37	UNCH
TOTAL JUL28												37	
2250 TOTAL						0.1069 - 0.0005	.1625					37 37	UNCH
AUG28 2250						0.1022 - 0.0005	.1543					33	UNCH
TOTAL												33	
SEP28 2250 TOTAL						0.1013 - 0.0005	.1522					36 36	UNCH
OCT28						0.0057 0.0004	1427						
2250 TOTAL						0.0957 - 0.0004	.1427					41 41	UNCH
NOV28 2250						0.0882 - 0.0004	.1302					38	UNCH
TOTAL DEC28												38	
2250 TOTAL						0.0738 - 0.0004	.1073					45 45	UNCH
JAN29 2250						0.0639 - 0.0003	.0916					45	UNCH
TOTAL FEB29												45	
2250 TOTAL						0.0667 - 0.0003	.0954					40 40	UNCH
ON CAL	L	NYMEX NATURA	L GAS OPTIONS (PHY)									
JUL18 2500 2600						0.439 UNCH 0.339 UNCH	1.0000 1.0000					0	UNCH
2650 2700						0.289 UNCH 0.239 UNCH	1.0000 1.0000					0	UNCH UNCH
2750 2800 2850						0.189 UNCH 0.139 UNCH 0.089 UNCH	1.0000 1.0000 1.0000					0 0 0	UNCH UNCH UNCH
2900 2950						0.039 UNCH 0.000 UNCH	1.0000					0	UNCH UNCH
3000 TOTAL						0.000 UNCH						0	UNCH
AUG18 2450			0.530B/	0.530B/		0.531 + 0.050	.9992					3	UNCH
2500 2550 2600			0.490B/ 0.440B/ 0.390B/	0.490B/ 0.440B/ 0.390B/		0.481 + 0.050 0.431 + 0.049 0.382 + 0.049	.9977 .9942 .9866					103 1 2	UNCH UNCH UNCH
2650 2700			0.340B/ 0.300B/	0.340B/ 0.300B/		0.333 + 0.048 0.286 + 0.048	.9655 .9440					2 2	UNCH UNCH
2750 2800 2850			0.250B/ 0.210B/ 0.160B/	0.250B/ 0.210B/ 0.160B/		0.240 + 0.045 0.197 + 0.042 0.157 + 0.037	.9059 .8479 .7740			 50		359 284 281 -	UNCH UNCH 50
2850 2900 2950	0.090	0.090	0.130B/ 0.100B/0.080A	0.130B/ 0.100B/0.080A		0.122 + 0.033 0.091 + 0.027	.6814 .5791			150 92		304 + 483 +	50 22
3000 3050	0.070 0.050 0.030	0.070 0.050 0.030	0.070B/0.060A 0.050/0.040A 0.040/0.030A	0.070B/0.060A 0.050/0.040A 0.040/0.030A		0.066 + 0.021 0.046 + 0.016 0.031 + 0.012	.4714 .3670 .2732			336 383 1091		1331 + 2474 + 3719 +	129 168 40
3100 3150 3200	0.020 0.010	0.030 0.020 0.010	0.020/0.020A 0.020/0.010A	0.020/0.020A 0.020/0.010A		0.020 + 0.008 0.013 + 0.005	.1937			82 303		1379 - 655 +	15 98
3250 3300	0.010	0.010 0.010	0.010/0.010 0.010/0.010	0.010/0.010 0.010/0.010		0.008 + 0.003 0.005 + 0.002	.0888			60 101		799 + 1285 +	56 31
3350	0.000 0.000	0.000 0.000	0.000/0.000 0.000/0.000	0.000/0.000 0.000/0.000		0.003 + 0.001 0.002 UNCH 0.001 UNCH	.0367 .0248 .0133			105 1 3		679 + 462 + 174 +	104 1 3
3400						0.001 UNCH 0.001 UNCH	.0073					219 3	UNCH UNCH
3400 3450 3500 3550			0.000/0.000	0.000/0.000 #0.000/*0.000		0.001 UNCH 0.001 NEW 0.001 UNCH	.0020 .0010 .0002			2 1 		63 + 1 + 9	2 1 UNCH
3400 3450 3500 3550 3600 3650			#0.000/*0.000				.0002						UNCH
3400 3450 3500 3550 3600 3650 3750 3850 4000	0.000 0.000	0.000 0.000 	#0.000/*0.000 			0.001 UNCH 0.001 UNCH						1 6	UNCH
3400 3450 3500 3550 3600 3650 3750 3850 4000 4100 4300	0.000	0.000 0.000 	#0.000/*0.000 			0.001 UNCH 0.001 UNCH 0.001 UNCH						6 1 3	UNCH UNCH UNCH
3400 3450 3500 3550 3600 3650 3750 3850 4000 4100 4300 5500 TOTAL	0.000 0.000 	0.000 0.000 	#0.000/*0.000 			0.001 UNCH 0.001 UNCH						6 1	UNCH UNCH
3400 34500 3550 3550 3600 3650 3750 3850 4000 4100 4300 5500 TOTAL SEP18 2500	0.000	0.000 0.000 	#0.000/*0.000 0.460B/	 0.460b/		0.001 UNCH 0.001 UNCH 0.001 UNCH 0.001 UNCH	.9722					6 1 3 1 15088 +	UNCH UNCH UNCH UNCH 640
3400 3450 3550 3650 3650 3750 3850 4000 4100 4300 5500 TOTAL \$EP18 2500 2550 2600	0.000	0.000 0.000 	#0.000/*0.000 0.460B/ 0.410B/ 0.370B/ 0.330B/	0.460B/ 0.410B/ 0.370B/		0.001 UNCH 0.001 UNCH 0.001 UNCH 0.001 UNCH 0.453 + 0.043 0.405 + 0.042 0.358 + 0.040 0.313 + 0.039	.9722 .9561 .9334 .8998			2760	====	6 1 3 1 15088 +	UNCH UNCH UNCH 640 UNCH UNCH UNCH UNCH
3400 34500 3550 3600 3650 3750 3850 4000 4100 5500 TOTAL SEP18 2500 2550 2600	0.000	0.000	#0.000/*0.000 0.460B/ 0.410B/	0.460B/ 0.410B/ 0.370B/		0.001 UNCH 0.001 UNCH 0.001 UNCH 0.001 UNCH 0.453 + 0.043 0.405 + 0.042 0.358 + 0.040	.9722 .9561 .9334		====	2760	====	6 1 3 1 15088 +	UNCH UNCH UNCH 640 UNCH UNCH UNCH

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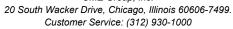
FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

NYMEN MARINE CAS DETUNS. (1979)	OPEN OUTCRY	EXER CISES	DELTA	SETT.PRICE & PT.CHGE.		OPEN OUTCRY HIGH/LOW	GLOBEX HIGH/LOW	OUTCRY RANGE	OPEN (GLOBEX OPEN	
2566 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00	VOLUME						GAS OPTIONS (PHY)	NATURAL	NYMEX	.L	
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1.000000000000000000000000000000000000			.1950 .1534 .1163 .0889 .0671 .0516	.028 + 0.007 .021 + 0.005 .015 + 0.004 .011 + 0.003 .008 + 0.002 .006 + 0.002	0 0 0 0 0	 0.030/0.030A 0.020B/ 0.020B/0.020 0.010B/ 0.010B/	0.030/0.030A 0.020B/ 0.020B/0.020 0.010B/ 0.010B/		0.030 0.020 	0.030 0.020 	3200 3250 3300 3350 3400 3450
1850			.0277 .0192 .0183 .0101 .0068	.003 + 0.001 .002 UNCH .002 + 0.001 .001 UNCH .001 UNCH	0 0 0 0	 0.000B/ 0.000B/	0.000B/ 0.000B/				3550 3600 3650 3700
Company Comp			.0030 .0020 .0008	.001 UNCH .001 UNCH .001 UNCH	0 0 0	 					3850 3900 4000 5500
2550			.9839 .9765 .9632	.606 + 0.042 .557 + 0.041 .509 + 0.040	0.	 					OCT18 2000 2350 2400
2950			.9219 .8945 .8564 .8153 .7099 .6514	.415 + 0.038 .371 + 0.036 .328 + 0.034 .288 + 0.032 .216 + 0.028 .184 + 0.025	0 0 0 0 0	 0.430B/ 0.390B/ 0.340B/0.330A 0.300B/ 0.230B/	0.430B/ 0.390B/ 0.340B/0.330A 0.300B/ 0.230B/		0.330	0.330	2550 2600 2650 2700 2800 2850
3300			.5277 .4659 .4066 .3497 .2975 .2495	.130 + 0.020 .108 + 0.017 .089 + 0.015 .072 + 0.013 .058 + 0.011 .046 + 0.008 .037 + 0.007	0. 0. 0. 0. 0.	 0.140B/ 0.120B/0.100A 0.100B/ 0.080B/ 0.060B/0.050A 0.050B/0.040 0.040B/0.040	0.140B/ 0.120B/0.100A 0.100B/ 0.080B/ 0.060B/0.050A 0.050B/0.040 0.040B/0.040		0.110 0.060 0.040 0.040	0.110 0.060 0.040 0.040	2950 3000 3050 3100 3150 3200 3250
3750			.1414 .1149 .0926 .0749 .0621 .0497	.023 + 0.005 .018 + 0.004 .014 + 0.003 .011 + 0.002 .009 + 0.002 .007 + 0.002	0 0 0 0 0	 0.030B/ 0.020B/ 0.020/0.010A 0.010/0.010A 0.010B/ 0.010B/	0.030B/ 0.020B/ 0.020/0.010A 0.010/0.010A 0.010B/ 0.010B/		0.020 0.010	0.020 0.010	3350 3400 3450 3500 3550 3600
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2950			.6698	.001 UNCH	0.	 0.250B/	0.2508/				5500 TOTAL NOV18 2850
3300			.5698 .5190 .4689 .4197 .3731 .3305	.178 + 0.021 .154 + 0.019 .132 + 0.017 .112 + 0.014 .095 + 0.013 .081 + 0.012	0. 0. 0. 0.	 0.190B/ 0.160B/ 0.140B/ 0.120B/ 0.100B/ 0.090B/	0.1908/ 0.1608/ 0.1408/ 0.1208/ 0.1008/				2950 3000 3050 3100 3150 3200
3650 0.020 0.020 0.020/0.010A 0.020/0.010A 0.015 0.003 0.832 5 7 3750 0.010B/ 0.010B/ 0.010B/ 0.010 0.002 0.584 156 3900 0.010B/ 0.010B/ 0.007 0.001 0.421 156 3900 0.010B/ 0.010B/ 0.006 0.001 0.364 16 4000 0.004 UNCH 0.0252 62 4200 0.004 UNCH 0.0131 406 4500 0.001 UNCH 0.0065 1 4750 0.001 UNCH 0.0065 3 5000 0.001 UNCH 0.0008 1 5500 0.001 UNCH 0.0008 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1 1677 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777 1777			.2505 .2175 .1871 .1594 .1345 .1160	.056 + 0.008 .047 + 0.008 .039 + 0.007 .032 + 0.005 .026 + 0.004 .022 + 0.004	0. 0. 0. 0.	 0.060B/ 0.050B/ 0.040B/ 0.030B/ 0.030B/	0.060B/ 0.050B/ 0.040B/ 0.030B/ 0.020B/				3300 3350 3400 3450 3500 3550
4750 0.001 UNCH .0023 3 5000 0.001 UNCH .0008 11 5500 0.001 UNCH .0008 2 TOTAL DEC18 2900 0.320B/ 0.320B/ 0.308 + 0.020 .6874 1 2950 0.290B/ 0.290B/ 0.278 + 0.019 .6490 16 3000 0.260B/ 0.260B/ 0.260B/ 16 3050 0.240B/ 0.240B/ 0.250 + 0.017 .6098 45 3100 0.210B/ 0.210B/ 0.290B/ 29 3100 0.150B/ 0.190B/ 0.201 + 0.016 .5703 29 3150 0.150B/ 0.190B/ 0.179 + 0.014 .4919 22 3250 0.150B/ 0.150B/ 0.150B/ 35			.0832 .0584 .0421 .0364 .0252 .0131	.015 + 0.003 .010 + 0.002 .007 + 0.001 .006 + 0.001 .004 UNCH	0. 0. 0. 0.	 0.020/0.010A 0.010B/ 0.010B/ 0.010B/	0.020/0.010A 0.010B/ 0.010B/ 0.010B/		0.020 	0.020 	3650 3750 3850 3900 4000 4200
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0023	.001 UNCH	0.	 					4750 5000 5500 TOTAL
			.6490 .6098 .5703 .5309 .4919	.278 + 0.019 .250 + 0.017 .224 + 0.016 .201 + 0.016 .179 + 0.014	0. 0. 0. 0.	 0.290B/ 0.260B/ 0.240B/ 0.210B/ 0.190B/	0.290B/ 0.260B/ 0.240B/ 0.210B/				2950 3000 3050 3100 3150
$\begin{array}{cccccccccccccccccccccccccccccccccccc$.3818 .3478 .3161 .2859 .2588 .2318	$\begin{array}{ccccc} .125 & + & 0.011 \\ .110 & + & 0.010 \\ .097 & + & 0.009 \\ .085 & + & 0.008 \\ .075 & + & 0.007 \\ .065 & + & 0.006 \end{array}$	0 0 0 0 0	 0.130B/0.130 0.120B/ 0.100B/ 0.090B/ 0.080B/ 0.070B/	0.130B/0.130 0.120B/ 0.100B/ 0.090B/ 0.080B/		0.130 	0.130	3300 3350 3400 3450 3500 3550
3600 0.0608/ 0.0608/ 0.0508/ 59 3650 0.0508/ 0.0508/ 0.0508/ 0.0508/ 3700 0.040 0.040 0.040 0.050/0.040A 0.050/0.040A 0.040/0.030A 0.044 0.040 0.040 0.0408/0.040 0.0408/0.040 0.038 + 0.003 1.489 11 33 + 3800 0.040 0.040 0.040/0.030A 0.040/0.030A 0.033 + 0.003 1.323 3 80 + 3850 0.0308/ 0.0308/ 0.0308/ 0.0308/ 3700 0.025 + 0.002 1.043 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/ 3700 0.0308/			.1869 .1678 .1489 .1323 .1182 .1043	.050 + 0.005 .044 + 0.004 .038 + 0.003 .033 + 0.003 .029 + 0.003 .025 + 0.002	0. 0. 0. 0.	 0.050B/ 0.050/0.040A 0.040B/0.040 0.040/0.030A 0.030B/ 0.030B/	0.050B/ 0.050/0.040A 0.040B/0.040 0.040/0.030A 0.030B/ 0.030B/		0.040 0.040 0.040	0.040 0.040 0.040	3650 3700 3750 3800 3850 3900
4000 0.020 0.020 0.020/0.020A 0.020/0.020A 0.020/0.020A 0.019 + 0.001 .0821 4 184 + 0.001 .0827 </td <td></td> <td></td> <td>.0740 .0537 .0330 .0282 .0194 .0149</td> <td>.017 + 0.002 .012 + 0.001 .007 UNCH .006 + 0.001 .004 UNCH</td> <td>0 0 0 0 0</td> <td> 0.020B/ 0.010/0.010 </td> <td>0.020B/ 0.010/0.010 </td> <td></td> <td>0.010</td> <td>0.010</td> <td>4050 4200 4400 4500 4650 4750</td>			.0740 .0537 .0330 .0282 .0194 .0149	.017 + 0.002 .012 + 0.001 .007 UNCH .006 + 0.001 .004 UNCH	0 0 0 0 0	 0.020B/ 0.010/0.010 	0.020B/ 0.010/0.010 		0.010	0.010	4050 4200 4400 4500 4650 4750
4800 9.003 UNCH .0147 9.0000 9.0000 304 5500 9.0002 UNCH .0099 304 5500 2.001 UNCH .0049 2.001 UNCH .0049 2.001 UNCH .0049 2.001 JAN19			.0147 .0099	.003 UNCH .002 UNCH	0.	 					4800 5000 5500 TOTAL

2018 DAILY INFORMATION BULLETIN - http://www.cmegroup.com/dailybulletin

 ${\it CME\ Group,\ Inc.}$







Side 101

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
ON CAL JAN19	L	NYMEX NATURAL	GAS OPTIONS (PHY)								
3000			#0.350B/	#0.350B/		0.344 + 0.018	.6528				3	UNCH
3050 3100			#0.320B/ 0.300B/	#0.320B/ 0.300B/		0.317 + 0.017 $0.292 + 0.016$.6214 .5899				12 118	UNCH UNCH
3150 3200			0.270B/ 0.260B/	0.270B/ 0.260B/		0.269 + 0.015 0.247 + 0.014	.5586 .5277				80 9	UNCH UNCH
3250			0.230B/	0.230B/		0.227 + 0.013	.4976				17	UNCH
3300 3350			0.220B/ 0.200B/	0.220B/ 0.200B/		0.209 + 0.013 0.191 + 0.011	.4686				10 13	UNCH UNCH
3500 3600			0.150B/ 0.130B/	0.150B/ 0.130B/		$ \begin{array}{rrrr} 0.147 & + & 0.009 \\ 0.124 & + & 0.009 \end{array} $.3613 .3156				14 5	UNCH UNCH
3750			0.100B/	0.100B/		0.095 + 0.007	.2550				1	UNCH
3900 4000	0.060	0.060	0.070B/ 0.060/0.060	0.070B/ 0.060/0.060		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.2049 .1763		54		1 131 +	UNCH 54
4500 4600	0.030	0.030	0.030B/0.030 0.020B/	0.030B/0.030 0.020B/		0.026 + 0.002 0.023 + 0.002	.0834		2		25 + 358	2 UNCH
4750			#0.020B/	#0.020B/		0.018 + 0.002	.0593				30	UNCH
4900 5000						$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.0410				294 110	UNCH UNCH
5250 5500						0.009 + 0.001 0.006 UNCH	.0309				60 1	UNCH UNCH
TOTAL									56		1292 +	56
FEB19			0.380B/	0.380B/		0.380 + 0.018	.6218				13	UNCH
3000 3050			0.360B/	0.360B/		0.357 + 0.017	.5963				10	UNCH
3100 3200			0.340B/ 0.300B/	0.340B/ 0.300B/		$ \begin{array}{r} 0.335 + 0.016 \\ 0.296 + 0.015 \end{array} $.5711				49 12	UNCH UNCH
3250 3300				'		0.278 + 0.014 0.262 + 0.014	.4993 .4770				78 3	UNCH
3500						0.206 + 0.011	.3954				5	UNCH
3600 3750						$ \begin{array}{r} 0.183 + 0.010 \\ 0.154 + 0.008 \end{array} $.3594 .3116				8 1	UNCH UNCH
3900 4000	0.110	0.110	0.120/*0.110	0.120/*0.110		$ \begin{array}{r} 0.130 + 0.007 \\ 0.117 + 0.007 \end{array} $.2700		4		1 302 +	UNCH 2
4200			0.080B/	0.080B/		0.094 + 0.006	.2038				6	UNCH
4300 4500	0.070	0.070	0.070/0.070	0.070/0.070		0.068 + 0.004	.1535		5		21 110 +	UNCH 5
4750 4800	0.050	0.050	0.050/0.050	0.050/0.050		0.053 + 0.003 0.050 + 0.003	.1226 .1166		13		32 + 21	13 UNCH
5000						0.041 + 0.002 0.026 + 0.002	.0974				6	UNCH
5500 5750						0.021 + 0.002	.0524				21	UNCH
6000 6500						$ \begin{array}{rrrr} 0.017 + 0.002 \\ 0.011 + 0.001 \end{array} $.0430				215 1	UNCH UNCH
7000						0.007 UNCH	.0189		22		36 956 +	UNCH 20
TOTAL									22		330 +	20
MAR19 2900						0.399 + 0.018	.6227				1	UNCH
2950 3000			0.380B/ 0.360B/	0.380B/ 0.360B/		0.377 + 0.018 0.356 + 0.017	.5988 .5753				18 36	UNCH UNCH
3050			0.340B/	0.340B/ 0.320B/		0.336 + 0.016	.5523				6	UNCH
3100 3200			0.320B/ 0.290B/	0.290B/		0.317 + 0.015 0.283 + 0.014	.4870				62	UNCH UNCH
3250 3300			0.270B/ 0.260B/	0.270B/ 0.260B/		0.268 + 0.013 0.253 + 0.012	.4668				1 5	UNCH UNCH
3500						0.204 + 0.010	.3761				7 11	UNCH
3600 3750						0.158 + 0.009	.3036				1	UNCH UNCH
3900 4000	0.120	0.120	#0.120/0.120	#0.120/0.120		$ \begin{array}{r} 0.136 + 0.008 \\ 0.123 + 0.007 \end{array} $.2672 .2452		1		1 77 +	UNCH 1
4500	0.060	0.060	0.060/0.060	0.060/0.060		0.077 + 0.005 0.061 + 0.004	.1623 .1320		10		8 2108 +	UNCH 10
4750 4800						0.059 + 0.004	.1278				35	UNCH
5000 5250	0.040	0.040	0.050/0.040	0.050/0.040		0.049 + 0.003 0.040 + 0.003	.1084		26 		5976 + 2973	26 UNCH
5500 5750						0.032 + 0.002 0.026 + 0.001	.0736				368 316	UNCH UNCH
6000						0.022 + 0.002	.0518				333	UNCH
7000 TOTAL						0.011 + 0.001	.0270		37		35 12387 +	UNCH 37
APR19												
2700 2750			0.190B/ 0.160B/	0.190B/ 0.160B/		$ \begin{array}{rrrr} 0.193 & + & 0.013 \\ 0.170 & + & 0.012 \end{array} $.5321 .4914				47 11	UNCH UNCH
3500						0.019 + 0.002	.0892				30	UNCH
3750 4250						0.009 + 0.001 0.003 UNCH	.0460 .0161				2 5118	UNCH UNCH
4500 5500						0.003 + 0.001 0.001 UNCH	.0148				251 1	UNCH
TOTAL						01002					5460	o.re.r
MAY19												
2600 2650						0.215 + 0.014 $0.190 + 0.013$.5827 .5402				9 10	UNCH UNCH
2700 3750						0.167 + 0.012 $0.007 + 0.001$.4979				9	UNCH
4250						0.003 UNCH	.0159				86	UNCH
5500 TOTAL						0.001 UNCH	.0047				1 117	UNCH
JUN19												
2600						$\begin{array}{r} 0.239 + 0.013 \\ 0.213 + 0.013 \end{array}$.6035 .5632				5 3	UNCH UNCH
2650 2700						0.188 + 0.012	.5226				4	UNCH
3750 4250						0.010 + 0.002 0.003 UNCH	.0495 .0161				2 86	UNCH UNCH
5500						0.001 UNCH	.0047				1 101	UNCH
TOTAL JUL19											101	
2700						0.207 + 0.011	.5479				4	UNCH
2750 3750						$ \begin{array}{rcr} 0.184 & + & 0.011 \\ 0.011 & + & 0.001 \end{array} $.5084				1 2	UNCH UNCH
4250 5500						0.004 UNCH 0.002 + 0.001	.0203				86 1	UNCH
TOTAL						0.002 1 0.001	.0003				94	OHEII
AUG19												
3750 4250						$ \begin{array}{rrrr} 0.013 & + & 0.001 \\ 0.005 & + & 0.001 \end{array} $.0607 .0242				2 86	UNCH UNCH
TOTAL											88	-
SEP19						0.015 . 0.003	0666				2	IINGII
3750 4250						0.015 + 0.002 0.005 UNCH	.0666 .0241				2 86	UNCH UNCH
TOTAL											88	
OCT19 3350						0.046 + 0.004	.1728				8	UNCH
4250						0.006 + 0.001	.0279				24	UNCH
TOTAL											32	
NOV19 3350						0.058 + 0.003	.2028				3	UNCH
TOTAL											3	
DEC19												
						USER AND IS FURNISHED N				CY OR CO	NTENT. IT	IS
ACCEPT	ED BY THE	- USER ON THE CO	UNULLION THAT EDD	THE OMESCENIC O	WALL NOT DE MADE	THE BASIS FOR ANY CLA	ING LIEMAND OD	ALICE EAD				





Side 102

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

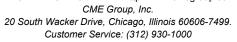
PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

	GLOBEX	OPEN OUTCRY	GLOBEX	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY	SETT.PRICE	DEI TA	EXER CTSES	OPEN OUTCRY	GLOBEX®			OPEN REST
ON CAL	OPEN L	OPEN RANGE NYMEX NATURAL	HIGH/LOW GAS OPTIONS (PHY)	, .	CLOSE RANGE	& PT.CHGE.	DELTA	CISES	OUTCRY VOLUME	VOLUME	VULUME	INTE	/E31
DEC19 3350						0.100 + 0.004	.2864					3 3	UNCH
ON PUT	г	NYMEX NATURAL	GAS OPTIONS (PHY)									,	
JUL18 2900 2950						0.000 UNCH 0.011 UNCH						0	UNCH UNCH
3000 3050 3100						0.061 UNCH 0.111 UNCH 0.161 UNCH	1.0000 1.0000 1.0000					0 0 0	UNCH UNCH UNCH
3150 3200						0.211 UNCH 0.261 UNCH	1.0000 1.0000					0	UNCH UNCH
3250 3300 TOTAL						0.311 UNCH 0.361 UNCH	1.0000 1.0000					0 0 0	UNCH
AUG18 1900						0.001 UNCH						6	UNCH
2200 2250						0.001 UNCH 0.001 UNCH						20 144	UNCH UNCH
2300 2350 2400						0.001 UNCH 0.001 UNCH 0.001 UNCH	.0000 .0000 .0002					364 2 253	UNCH UNCH UNCH
2450 2500	0.000 0.000	0.000 0.000	0.000/0.000 0.000/0.000	0.000/0.000 0.000/0.000		0.001 UNCH 0.001 UNCH	.0007 .0022			2 1		56 + 785	2 UNCH
2550 2600 2650			 /*0.000A	 /*0.000A		0.001 UNCH 0.001 - 0.001 0.003 - 0.001	.0057 .0133 .0344			29 50		380 655 - 702 -	UNCH 21 30
2700 2750 2800	0.010 0.010 0.020	0.010 0.010 0.020	0.010/*0.010 0.010B/*0.010 0.020/*0.010A	0.010/*0.010 0.010B/*0.010 0.020/*0.010A		0.005 - 0.003 0.009 - 0.005 0.016 - 0.008	.0559 .0941 .1520			61 125 798		462 + 2410 + 3524 -	28 106 14
2850 2900	0.030 0.060	0.030 0.060	0.030B/*0.020 0.060/*0.040	0.030B/*0.020 0.060/*0.040		0.026 - 0.013 0.041 - 0.017	.2259 .3185			101 605		1914 + 1319 +	68 277
2950 3000 3050	0.060 0.090 0.110	0.060 0.090 0.110	0.070B/*0.050 0.100B/0.080A 0.130B/0.110A	0.070B/*0.050 0.100B/0.080A 0.130B/0.110A		0.060 - 0.023 0.085 - 0.029 0.115 - 0.034	.4208 .5285 .6329			173 77 15		449 + 250 + 95	82 28 UNCH
3100 3150			/0.180A	/0.180A		0.150 - 0.038 0.189 - 0.042	.7267 .8062			20 		48 + 2 4	20 UNCH
3200 3250 3300	0.340	0.340	/0.220A /0.260A 0.350B/0.310A	/0.220A /0.260A 0.350B/0.310A		0.277 - 0.047 0.324 - 0.048	.8654 .9111 .9417					6 3 +	UNCH UNCH 2
3350 TOTAL						0.372 - 0.049	.9632			2059		3 13856 +	UNCH 548
SEP18 2000						0.001 UNCH 0.001 UNCH	.0000					21 7	UNCH
2100 2200 2250						0.001 UNCH 0.001 UNCH	.0005 .0012					241 131	UNCH UNCH
2300 2350 2400	0.000	0.000	0.000/*0.000	0.000/*0.000		0.001 UNCH 0.001 UNCH 0.001 UNCH	.0026 .0053 .0100			2		49 1243 - 63	UNCH 2 UNCH
2450 2500	0.000	0.000 0.000	0.000/*0.000 0.000/*0.000	0.000/*0.000 0.000/*0.000		0.002 UNCH 0.003 - 0.001	.0187 .0277			12 27		38 - 263 +	2 24
2550 2600 2650	0.010 0.010	0.010 0.010 	0.010B/*0.010 0.010B/*0.010 /*0.010A	0.010B/*0.010 0.010B/*0.010 /*0.010A		0.005 - 0.002 0.008 - 0.003 0.013 - 0.005	.0438 .0665 .1002			500 40 		572 - 720 + 822	500 24 UNCH
2700 2750	0.020 0.030 0.040	0.020 0.030 0.040	0.020B/*0.020 0.040B/*0.030 0.050B/*0.040	0.020B/*0.020 0.040B/*0.030 0.050B/*0.040		0.020 - 0.007 0.030 - 0.010 0.043 - 0.013	.1430 .1971 .2596			164 619 390		891 + 579 + 418 +	160 334 196
2800 2850 2900	0.060	0.060	0.060B/*0.060, /0.080A	0.060B/*0.060 /0.080A		0.059 - 0.017 0.080 - 0.020	.3288 .4043			268		378 + 22	93 UNCH
2950 3000 3150	0.140	0.140	/0.100A 0.140B/0.130A /0.230A	/0.100A 0.140B/0.130A /0.230A		0.104 - 0.023 0.132 - 0.027 0.236 - 0.035	.4809 .5565 .7524			258 25		380 + 34 2	258 UNCH UNCH
3200 3250			/0.270A /0.310A	/0.270A /0.310A		0.277 - 0.037 0.319 - 0.039	.8049 .8465					2 2	UNCH UNCH
3300 3350 TOTAL			/0.350A /0.400A	/0.350A /0.400A		0.363 - 0.040 0.409 - 0.041	.8836 .9110			2305		8 3 6889 +	UNCH UNCH 585
OCT18 2100						0.001 UNCH	.0006					8	UNCH
2150 2200						0.001 UNCH 0.001 UNCH	.0013 .0026			201		10 226 +	UNCH 172
2250 2300 2350						0.001 UNCH 0.001 - 0.001 0.002 - 0.001	.0049 .0087 .0160					333 41 87	UNCH UNCH UNCH
2400 2450	0.010	 0.010	/*0.010A 0.010B/*0.010	 /*0.010A 0.010B/*0.010		0.003 - 0.001 0.005 - 0.002 0.008 - 0.003	.0234 .0367 .0550			 211		109 62 393 +	UNCH UNCH 157
2500 2550 2600	0.010 0.020	0.010 0.020	0.010B/*0.010 0.020/*0.020	0.010B/*0.010 0.020/*0.020		0.012 - 0.004 0.017 - 0.006	.0780 .1054			5 1		594 + 1100 +	5 1
2650 2700 2750	0.030	0.030	/*0.020A 0.040B/*0.030 /*0.040A	/*0.020A 0.040B/*0.030 /*0.040A		0.025 - 0.007 0.034 - 0.010 0.047 - 0.011	.1435 .1847 .2356			11		91 107 323	UNCH UNCH UNCH
2800 2850	0.060	0.060	0.070B/0.060A /0.080A	0.070B/0.060A /0.080A		0.062 - 0.014 0.080 - 0.016	.2900 .3485			2		344 221	UNCH UNCH
2900 2950 3000			/0.100A /0.120A /0.150A	/0.100A /0.120A /0.150A		0.101 - 0.019 0.125 - 0.022 0.153 - 0.024	.4097 .4722 .5340					24 30 38	UNCH UNCH UNCH
3150 3300			/0.240A /*0.360A /0.400A	/0.240A /*0.360A /0.400A		0.252 - 0.032 0.373 - 0.036 0.416 - 0.038	.7024 .8281 .8585					1 2 1	UNCH UNCH UNCH
3350 3400 3450			/0.450A /0.490A	/0.450A /0.490A		0.461 - 0.038 0.507 - 0.039	.8850 .9073					7 1	UNCH UNCH
3500 TOTAL			/0.540A	/0.540A		0.554 - 0.040	.9250			431		1 4154 +	UNCH 335
NOV18 2200 2250						0.002 UNCH 0.002 - 0.001	.0125 .0133					25 20	UNCH UNCH
2300 2350			/*0.000A /*0.010A	/*0.000A /*0.010A		0.003 - 0.002 0.005 - 0.002	.0193 .0301					160 14	UNCH UNCH
2400 2450 2500			/*0.010A /*0.010A /*0.010A	/*0.010A /*0.010A /*0.010A		0.007 - 0.002 0.010 - 0.003 0.014 - 0.004	.0408 .0558 .0746					22 50 84	UNCH UNCH UNCH
2550 2600	0.030	0.030	/*0.020A 0.030B/*0.030	/*0.020A 0.030B/*0.030		0.020 - 0.005 0.027 - 0.006	.0999 .1279			7		21 180	UNCH
2650 2700 2750	0.040 0.050	0.040 0.050 	0.040B/*0.030, 0.050B/*0.040, /*0.060A	0.040B/*0.030 0.050B/*0.040 /*0.060A		0.035 - 0.008 0.046 - 0.009 0.059 - 0.011	.1589 .1966 .2380			7 7 		158 - 77 26	UNCH UNCH
2800 2850			/0.070A /0.090A /0.110A	/0.070A /0.090A /0.110A		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$.2823 .3301 .3794					379 38 13	UNCH UNCH UNCH
2900 2950 3000			/0.130A /0.150A	/0.130A /0.150A		0.135 - 0.018 0.161 - 0.020	.4301 .4809					15 3	UNCH UNCH
3050 3100			/0.180A /0.210A	/0.180A /0.210A		0.189 - 0.022 0.219 - 0.024	.5310 .5802			 21		12 14 1311 -	UNCH UNCH 7
DEC18			/0.010A	/0.010A		0.008 - 0.001	.0349					12	UNCH
2300 2400 2450			/0.010A /*0.020A	/0.010A /*0.020A		0.013 - 0.003 0.017 - 0.004	.0544 .0686					70 30	UNCH UNCH
2500 2550 2600			/0.020A /*0.030A /0.030A	/0.020A /*0.030A /0.030A		0.022 - 0.004 0.027 - 0.006 0.034 - 0.007	.0854 .1026 .1244					186 30 102	UNCH UNCH UNCH
THE IN	NFORMATION			PILED FOR THE CON	VENIENCE OF THE	JSER AND IS FURNISHED \	WITHOUT F				CY OR CO		

ACCEPTED BY THE USER ON THE CONDITION THAT ERRORS OR OMISSIONS SHALL NOT BE MADE THE BASIS FOR ANY CLAIM, DEMAND, OR CAUSE FOR ACTION.

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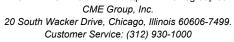


Side 103

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

Column			KENTONZ DAY 2 SE										
## Company of the com	(HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		DELTA		OUTCRY	GLOBEX® VOLUME			OPEN REST
Section Company Comp		NYMEX NATURAL	GAS OPTIONS (PHY)										
1988			/0.040A /0.050A	/0.040A /0.050A		0.043 - 0.007 0.053 - 0.009							
1	2750			/0.060A								6	UNCH
### Comment of the co	2850		/0.090A	/0.090A		0.094 - 0.012	.2761					10	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2950	 	/0.130A	/0.130A		0.131 - 0.01	.3509					16	UNCH
1510	3050	 	/0.170A	/0.170A		0.177 - 0.017	.4296					21	UNCH
Section 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000 19,000			/0.230A	/0.230A								7	
STATE	3230			/0.290A /0.390A									
1	TOTAL		,	•								1016	
The column The		 				0.011 - 0.002	.0380					20	UNCH
1986	2300					0.014 - 0.002	.0470					3	UNCH
2500	2600	 	/0.050A	/0.050A		0.046 - 0.004	.1320					8	UNCH
\$200	2750	 	/0.080A	/0.080A		0.078 - 0.007	.2012					7	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2900	 	/0.120A	/0.120A		0.125 - 0.010	.2857					278	UNCH
2000	3000		/0.180A			0.188 - 0.014	.3785					10	
TOTAL TO	3100			/0.210A /0.290A		0.213 - 0.015 0.297 - 0.015							
1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906 1906			,	,									
1		 				0.024 - 0.003	0654					20	UNCH
23-50	2500	 				0.061 - 0.004	.1413					62	UNCH
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	2750	 				0.130 - 0.007	.2509					2	UNCH
3100	2900	 				0.191 - 0.009	.3268					3	UNCH
1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985 1985	3000		/0.240A /0.290A									31	
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2200							.0508						
2596 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590 0.590, 0.590, 0.590 0.590, 0.590, 0.590, 0.590 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590, 0.590,	2200					0.034 - 0.002	.0838					3684	UNCH
2000	2300 C					0.049 - 0.004	.1132					9 +	3
1966	2500	 				0.094 - 0.00	.1885					62	UNCH
2500	2600	 	/0.130A	/0.130A		0.126 - 0.006	.2333					3	UNCH
2566			/0.210A	/0.210A		0.208 - 0.009	.3288					4	UNCH
1000													
1550	3000	 				0.313 - 0.012						3	UNCH
1850										,		.52.	3
1956	1850												
2960	1950	 				0.014 UNC	.0526					11	UNCH
MATERIAL 1908 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 1909 190												1	
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DIALY 2900		 				0.337 - 0.013	.6644					2	UNCH
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2900												2	
Mich 2990		 				0.309 - 0.013	.6086					2	UNCH
2900												2	
TOTAL 2900		 				0.310 - 0.013	. 5985					2	UNCH
2900 2 UNCH TOTAL 2 UNCH 2000						0.010						2	o.ve.i
OCT19 3000 8 UNCH TOTAL NOV19 3000 0.354 - 0.013 .6576 8 UNCH TOTAL DEC19 3000 0.354 - 0.015 .6155 3 UNCH TOTAL DEC19 3000 0.297 - 0.013 .5221 3 UNCH TOTAL DEC19 3000 0.297 - 0.013 .5221 3 UNCH TOTAL DEC19 3000 0.297 - 0.013 .5221 0.250 0 UNCH TOTAL DEC19 3000 0.250 0 UNCH TOTAL DEC19 3000 0.000 UNCH 0.250 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 1.0000 0.0000 UNCH TOTAL DEC19 3000 0.0000 UNCH 1.0000 50 100 0.0000 UNCH TOTAL DEC19 3000 0.0000 UNCH 1.0000 50 100 0.0000 UNCH TOTAL DEC19 3000 0.0000 UNCH 1.0000 50 100 0.0000 UNCH TOTAL DEC19 3000 0.0000 UNCH 1.0000 50 150 150 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH TOTAL DEC19 3000 0.0000 UNCH 150 300 0 UNCH		 				0.326 - 0.010	6037					2	LINCH
3000 8 UNCH 1071AL 80019 3000 3 UNCH 1071AL 3000 3 UNCH 1071AL 3 UNCH						0.520 0.010	.0037					2	ONCIT
TOTAL NOV19 3000 0.354 - 0.015 .6155 3 UNCH TOTAL DEC19 3000 0.297 - 0.013 .5221 3 UNCH TOTAL TOTAL DEC19 3000 0.297 - 0.013 .5221 3 UNCH TOTAL DEC19 3000 0.297 - 0.013 .5221 3 UNCH TOTAL DEC19 3000 0.250 0 UNCH TOTAL DEC19 3000 0.000 UNCH 250 0 UNCH TOTAL DEC19 3000 0.000 UNCH 0.000 UNCH TOTAL DEC19 3000 0.0000 UNCH TOTAL DEC19 3000 UNCH TOTAL DEC19 300						0.202 0.013	6576					0	UNCU
NOVIS		 	===	===		0.303 - 0.013	03/0						UNCH
TOTAL DEC19 3000 TOTAL CD CALL 271UN18 CD CALL 271UN18 CD CALL 271UN18 CD CALL 271UN18 CO CALL 271UN18 CO CALL CO CA	NOV19					0.354 0.04	6155					3	Inicii
DEC19 3000		 				0.554 - 0.01	.6155					3 3	UNCH
CD CALL	DEC19					0.307 0.05	F224					-	
CD CALL 2731W18 7300		 				0.297 - 0.01	.5221					3 3	UNCH
Nymex one day natural gas options Nymex one day natural gas op													
Nymex one day natural gas options Nymex one day natural gas op	CD C***	NVMEY ONE BAY	COURS OF COTTONS										
KD CALL NYMEX ONE DAY NATURAL GAS OPTIONS	27JUN18	NIMEA UNE DAY	CYOPE OIL OFITONS			0.00					350	^	Inicii
KD CALL NYMEX ONE DAY NATURAL GAS OPTIONS 2950 0.0000 UNCH 1.0000 0.000 UNCH 1.000 UNCH 1.000 0.000 UNCH 1.000 UNCH 1.		 				U.UU UNC					250		UNCH
2510	-												
2510	ND C	NIVMEY ONE SALL	NATURAL CAS COTTO	c									
TOTAL 27JUN18 2975 0.0000 #0.0000/*0.00/ 0.0000 New 1.000 50 100 0 UNCH 3000 0.0000 UNCH 175 150 0 UNCH 3005 0.0000 UNCH 50 0 UNCH 3025 0.0000 UNCH 50 0.0000 UNCH 50 0 UNCH 3025 150 0 UNCH 3025	26JUN18												
27JUN18 2975 0.0000 #0.0000/*0.00/ 0.0060 NEW 1.0000 50 100 0 UNCH 3000 0.0000 UNCH 175 150 0 UNCH 3025 0.0000 UNCH 175 150 0 UNCH TOTAL KD PUT NYMEX ONE DAY NATURAL GAS OPTIONS 26JUN18 2925 0.0000 UNCH 50 0 UNCH TOTAL 27JUN18 2975 0.0000 UNCH 50 0 UNCH TOTAL TOTAL 77JUN18 2975 0.0000 UNCH 150 300 0 UNCH TOTAL THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS		 				U.0000 UNC	1.0000						UNCH
3000 0.0000 #0.0000/*0.001 0.0000 UNCH 175 150 0 UNCH 3025 0.0000 UNCH 50 50 0 UNCH 3025 50 UNCH 3025 0.0000 UNCH 50 50 0 UNCH 3025 150 0 UNCH 50 UNCH	27JUN18	0.0000		#0 0000 /:		0.000						_	
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NYMEX ONE DAY NATURAL GAS OPTIONS	3025									50		0	
261JW18 2925 0.0000 UNCH 0 UNCH TOTAL 27JUN18 2975 0.0000 #0.0000/*0.00 0.0000 UNCH 150 300 0 UNCH TOTAL THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS		NYMEX ONE DAY	NATURAL GAS OPTION	S								-	
TOTAL 27JUN18 2975 0.0000 #0.0000/*0.00/ 0.0000 UNCH 150 300 0 UNCH TOTAL THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS	26JUN18					0.0000 UNC						0	UNCH
2975 0.0000 #0.0000/*0.00/ 0.0000 UNCH 150 300 0 UNCH TOTAL THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS													
TOTAL THE INFORMATION CONTAINED IN THIS REPORT IS COMPILED FOR THE CONVENIENCE OF THE USER AND IS FURNISHED WITHOUT RESPONSIBILITY FOR ACCURACY OR CONTENT. IT IS		 0.0000		#0.0000/*0.000		0.0000 UNC				150	300	0	UNCH
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											CY OR CO	NTENT. IT	IS





Side 104

FINAL

PG63 BULLETIN #123@ ENERGY OPTIONS Wed, Jun 27, 2018 PG63
THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX
(ELECTRONIC), OPEN OUTCRY (TRADING FLOOR) AND PRIVATELY NEGOTIATED TRANSACTIONS (PNT) THAT INCLUDE CME CLEARPORT ACTIVITY. VOLUME OR OPEN
INTEREST CHANGES (BOTH BEFORE AND AFTER THE LAST DAY OF TRADING) MAY BE AFFECTED BY: PRIVATELY NEGOTIATED TRANSACTIONS, PRIOR DAY CLEAREI
TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

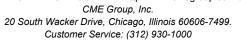
PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME VO	PNT DLUME	(INTER	OPEN REST
OB CALL	NYMEX RBOB (F	PHY) OPTIONS										
JUL18 17700						1.0000					0	UNCH
18800 20000					0.1946 UNCH 0.0746 UNCH	1.0000					0 0 0	UNCH
20100 20200 20400					0.0646 UNCH 0.0546 UNCH	1.0000					0	UNCH
20500					0.0346 UNCH 0.0246 UNCH	1.0000					0	UNCH
20800					0.0146 UNCH 0.0000 UNCH						0	UNCH
TOTAL AUG18											U	
17200 19500					0.3903 + 0.0535 0.1703 + 0.0470						100 100	UNCH UNCH
19600 19700					0.1616 + 0.0462 0.1531 + 0.0454	.8617 .8461					100 200	UNCH
19900 20000					0.1364 + 0.0434 0.1284 + 0.0424	.8114					100 50	UNCH
20400 0.0700 20500	0.0700	#0.0800B/0.070 #0.0900B/	#0.0800B/0.070 #0.0900B/		0.0983 + 0.0370 0.0913 + 0.0353	.7050			2		3 + 209	2 UNCH
20600 0.0600 20700	0.0600	0.0900B/0.0600 #0.0800B/	0.0900B/0.060 #0.0800B/		0.0846 + 0.0337 0.0782 + 0.0320				3		6 + 2	1 UNCH
20800 0.0500 20900	0.0500	0.0700B/0.050 0.0700B/	0.0700B/0.050 0.0700B/		0.0721 + 0.0303 0.0664 + 0.0287	.5716			2		112 + 60	2 UNCH
21000 0.0600 21100	0.0600	0.0600/0.0600, #0.0600B/	0.0600/0.0600 #0.0600B/		0.0609 + 0.0269 0.0558 + 0.0253	.5138			1	200	312 - 1	163 UNCH
21200 0.0500 21400	0.0500	0.0500/0.0500 0.0400B/	0.0500/0.0500 0.0400B/		0.0510 + 0.0237 0.0422 + 0.0205				2		12 + 22	UNCH
21500 21600 0.0300	0.0300	0.0400B/ 0.0400B/0.030	0.0400B/ 0.0400B/0.030		0.0383 + 0.0190 0.0346 + 0.0175	.3714			3	25 	129 +	25 UNCH
21700 0.0300 21800	0.0300	0.0300B/0.0300 #0.0300B/	0.0300B/0.0300 #0.0300B/		0.0313 + 0.0161 0.0281 + 0.0147	.3450			3		21 1	UNCH
22000 0.0300 22100 0.0200	0.0300 0.0200	0.0300/0.0200/ #0.0200/*0.020	0.0300/0.0200, #0.0200/*0.020		0.0227 + 0.0123 0.0203 NEW	.2481			1		43 - 1 +	1
22200 0.0200 22500	0.0200	0.0200/0.0200 0.0100B/	0.0200/0.0200 0.0100B/		0.0182 + 0.0103 0.0128 + 0.0076	.1707			2 		22 + 55	UNCH
22700 22800 22900		0.0100B/ 	0.0100B/ 		0.0100 + 0.0061 0.0088 + 0.0054 0.0078 + 0.0049	.1248					110 10 10	UNCH UNCH UNCH
23000		0.0000B/	0.0000B/		0.0078 + 0.0049 0.0068 + 0.0043 0.0045 + 0.0030	.1000					77 111	UNCH
23500		0.0000B/			0.0034 + 0.0030 0.0030 + 0.0021	.0545					51 50	UNCH
23600 23700 24000					0.0026 + 0.0018 0.0016 + 0.0011	.0427					55 70	UNCH
25300					0.0002 + 0.0001				20	225	1 2211 -	UNCH 130
TOTAL SEP18									20	223	2211	130
18500 19000					0.2520 + 0.0474 0.2088 + 0.0450						175 700	UNCH UNCH
19400 19500					0.1766 + 0.0423 0.1690 + 0.0415	.7891					100 100	UNCH UNCH
19600 0.1600 20000	0.1600	#0.1600/0.160	#0.1600/0.160		0.1615 + 0.0407 0.1333 + 0.0368	.7587			1		2 100	UNCH UNCH
20100 20200		#0.1000B/ #0.1100B/	#0.1000B/ #0.1100B/		0.1267 + 0.0356 0.1203 + 0.0344	.6553					50 125	UNCH UNCH
20400 20500		#0.1100B/ #0.1000B/	#0.1100B/ #0.1000B/		0.1082 + 0.0320 0.1024 + 0.0307	.5982					200 _1	UNCH
20600 20700		#0.1000B/ #0.0900B/	#0.1000B/ #0.0900B/		0.0968 + 0.0295 0.0914 + 0.0282	.5591				100	50 - 10	50 UNCH
20900 21000		#0.0800B/ #0.0800B/	#0.0800B/ #0.0800B/		0.0814 + 0.0260 0.0767 + 0.0249	.5000					100 402	UNCH
21200 0.0600 21300	0.0600	#0.0700B/0.060 #0.0600B/	#0.0700B/0.060 #0.0600B/		0.0680 + 0.0228 0.0639 + 0.0217	.4419					100 5	UNCH
21400 21500 0.0500	0.0500	0.0600B/0.050	0.0600B/0.050		0.0600 NEW 0.0564 + 0.0198	.4046			10	200	200 + 24 +	200 4
21700 22000		#0.0500B/ #0.0400B/	#0.0500B/ #0.0400B/		0.0496 + 0.0179 0.0407 + 0.0154	.3179					1 109	UNCH
22200 22300		#0.0400B/ #0.0300B/ #0.0300B/	#0.0400B/ #0.0300B/ #0.0300B/		0.0356 + 0.0139 0.0332 + 0.0132	.2716					61 25 2	UNCH
22400 22500 22700 0.0300	0.0300	#0.0300B/ #0.0300B/ #0.0300/*0.030	#0.0300B/ #0.0300B/ #0.0300/*0.030		0.0310 + 0.0125 0.0289 + 0.0119 0.0250 NEW	.2434			10		404 10 +	UNCH UNCH 10
23000		#0.0300/ "0.031 	#0.0300/ "0.031 		0.0230 + 0.0088 0.0115 + 0.0056	.1810					42 8	UNCH UNCH
25000					0.0036 + 0.0020					300	30 3136 +	UNCH 164
TOTAL OCT18									22	300	3130 +	104
17500 17900					0.2486 + 0.0404 0.2163 + 0.0384						275 100	UNCH UNCH
18000 18900					0.2085 + 0.0378 0.1452 + 0.0315	.7919					10 100	UNCH
19300 19400					0.1214 + 0.0283 0.1159 + 0.0275	.6030					100 100	UNCH UNCH
20000					0.0865 + 0.0227 0.0822 + 0.0219						101 50	UNCH UNCH
20400 0.0700 20700 0.0600	0.0700 0.0600	#0.0700/*0.070 #0.0600/*0.060	#0.0700/*0.070 #0.0600/*0.060		0.0703 NEW 0.0597 NEW	.3774			1 1		1 + 1 +	1 1
21000 21200					0.0505 + 0.0154 0.0450 + 0.0140	.3064					100 100	UNCH UNCH
22500 25000					0.0206 + 0.0072 0.0037 + 0.0017						50 100	UNCH
TOTAL DEC18									2		1188 +	2
16000					0.3553 + 0.0378 0.3383 + 0.0373						50 100	UNCH UNCH
16200 16300 18100					0.3299 + 0.0370 0.1957 + 0.0304	.8597					150 150 50	UNCH
18400 18500					0.1770 + 0.0289 0.1710 + 0.0284	.6495					50 50	UNCH
18700 19400					0.1595 + 0.0274 0.1236 + 0.0227						125 250	UNCH
19600 22000					0.1148 + 0.0215 0.0446 + 0.0109	.4999					150 500	UNCH
22500 23000					0.0361 + 0.0091 0.0292 + 0.0077	.2091					525 10	UNCH
24500 TOTAL					0.0149 + 0.0046						2012	UNCH
APR19					0.4222							
22400 22600					0.1323 + 0.0181 0.1254 NEW	.4215				100	1 100 +	UNCH 100
22800 23000					0.1190 + 0.0168 0.1128 + 0.0161					100	1 2	UNCH
TOTAL OB PUT	NYMEX RBOB (P	PHY) OPTIONS								100	104 +	100
JUL18 20500	NDUD (P				0.0000 UNCH						0	UNCH
20600 20700					0.0000 UNCH 0.0000 UNCH						0	UNCH
20800					0.0054 UNCH						ő	UNCH
THE INFORMATION	N CONTAINED IN	IMIS KEPORT IS COM	PLIED FOR THE CON	VENTENCE OF THE U	JSER AND IS FURNISHED THE BASIS FOR ANY CL	MT LHOUT	KESPONSI	RILLY FOR	UK ACCURACY	UR CO	NTENT. IT	12

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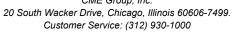
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(GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE		.PRICE .CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		(INTEI	OPEN REST
OB PUT JUL18		NYMEX RBOB (PH	Y) OPTIONS											
20900 21000						0.0154 0.0254	UNCH UNCH						0	UNCH UNCH
21100 21200						0.0354 0.0454	UNCH						0	UNCH
21300 21400						0.0554 0.0654	UNCH UNCH	1.0000					0	UNCH
21500						0.0754	UNCH	1.0000					0	UNCH
21600 21700						0.0954 0.1054	UNCH	1.0000					0	UNCH
21800 22000						0.1254	UNCH	1.0000					0	UNCH
22100 22400						0.1354 0.1654 0.1954	UNCH UNCH UNCH	1.0000 1.0000 1.0000					0 0 0	UNCH UNCH UNCH
22700 TOTAL						0.1934	UNCH	1.0000					o	UNCH
AUG18 17500						0.0003	- 0.0004	.0051					11	UNCH
18500 18700						0.0024 0.0033	- 0.0020 - 0.0027	.0345					109 55	UNCH
18800 18900						0.0039 0.0045	- 0.0030 - 0.0034	.0535 .0610					5	UNCH
19000 19200						0.0052 0.0069	- 0.0038 - 0.0047	.0694 .0891					106 13	UNCH UNCH
19500 19800			/*0.0100A /*0.0200A	/*0.0100A /*0.0200A		0.0102 0.0145	- 0.0065 - 0.0091	.1256 .1708					182 8	UNCH UNCH
19900 20000 C	0.0200	0.0200	/*0.0200A 0.0200/0.0200	/*0.0200A 0.0200/0.0200		0.0163 0.0183	- 0.0101 - 0.0111	.1885 .2076			2		50 78 +	UNCH 1
20300 C 20400 C	0.0200	0.0200 0.0300	0.0300B/*0.020 0.0300B/*0.030	0.0300B/*0.020 0.0300B/*0.030		0.0253 0.0281	- 0.0150 - 0.0165	.2712 .2949			1 1		9 + 50	1 UNCH
20500 20600 0	0.0400	0.0400	/0.0300A 0.0400/*0.030	/0.0300A 0.0400/*0.030			- 0.0182 - 0.0198	.3196 .3454			1		1 1 +	UNCH 1
20700 C 21000 C	0.0400 0.0500	0.0400 0.0500	#0.0400/*0.040 0.0500B/0.0500	#0.0400/*0.040 0.0500B/0.0500		0.0380 0.0507	NEW - 0.0265	.3723 .4571			1 3		1 + 21 +	1 1
22000 TOTAL						0.1123	- 0.0412	.7292			9		4 709 +	UNCH 5
SEP18						0.0005	- 0.0002	.0061					50	UNCH
16000 16500						0.0012 0.0024	- 0.0002 - 0.0003 - 0.0006	.0136					51 37	UNCH
17000 18800			/*0.0200A /0.0200A	/*0.0200A /0.0200A		0.0161 0.0191	- 0.0006 - 0.0044 - 0.0055	.1383					3 9	UNCH
19000 20100			/*0.0500A /*0.0500A /*0.0700A	/*0.0200A /*0.0500A /*0.0700A		0.0467 0.0667	- 0.0033 - 0.0149 - 0.0210	.3266					6	UNCH
20600 20700 21000			/*0.0700A /0.0800A	/*0.0700A /0.0800A		0.0713 0.0865	- 0.0222 - 0.0256	.4409					1 3	UNCH
21600 C 21600 C 22700		0.1300	0.1300/0.1300	0.1300/0.1300		0.1225	- 0.0316 - 0.0400	.6135			2		4 + 6	2 UNCH
TOTAL						0.2013	0.0100	.,,,,,			2		173 +	2
ост18 15000						0.0017	- 0.0007	.0165					50	UNCH
17000 17600							- 0.0041 - 0.0066	.1093 .1629					4 1	UNCH UNCH
17800 18000						0.0271	- 0.0075 - 0.0086	.1846 .2080					1 10	UNCH
18900 19300							- 0.0150 - 0.0181	.3332 .3969					100 100	UNCH UNCH
19400 20100							- 0.0190 - 0.0245	.4133 .5285					50 51	UNCH UNCH
TOTAL													367	
DEC18 15000							- 0.0019 - 0.0030	.0696 .1248					222 150	UNCH
16000 16500 18000						0.0312	- 0.0030 - 0.0043 - 0.0099	.1599					50 6	UNCH
18700 18900						0.0960	- 0.0134 - 0.0147	.3873					25 25	UNCH
TOTAL						0.20.0	0.01						478	0.1.2
JAN19 15000						0.0165	- 0.0020	.0852					30	UNCH
TOTAL FEB19													30	
14000						0.0115	- 0.0013	.0571					4 4	UNCH
TOTAL													•	
PU CALI		PANHANDLE PIPE	ORTION											
JUL18 2650	-					0.0001	UNCH	.0012					240	UNCH
TOTAL						0.0001	ONCII	.0012					240	ONCIT
AUG18 2650						0.0012	+ 0.0004	.0190					240	UNCH
TOTAL													240	
SEP18 2650						0.0033	+ 0.0010	.0387					240 240	UNCH
TOTAL OCT18													240	
2650 TOTAL						0.0048	+ 0.0012	.0474					240 240	UNCH
NOV18														
2650 TOTAL						0.0165	+ 0.0021	.1158					240 240	UNCH
DEC18 2650						0.0871	+ 0.0045	.3464					240	UNCH
TOTAL													240	
PU PUT JUL18		PANHANDLE PIPE				0.1644	0.0460	0001					240	
2400 TOTAL						0.1644	- 0.0468	.9901					240 240	UNCH
AUG18 2400						0 1390	- 0.0373	.7587					240	UNCH
TOTAL						3.1330	0.03/3	. , , , , ,					240	CHCII
SEP18 2400						0.1926	- 0.0289	.7698					240	UNCH
TOTAL OCT18													240	
2400						0.2492	- 0.0295	.7971					240 240	UNCH
TOTAL NOV18														
2400 TOTAL						0.2268	- 0.0155	.6856					240 240	UNCH
DEC18														
THE INF	FORMATION ED BY THE	CONTAINED IN THUSER ON THE CON	HIS REPORT IS COMP NDITION THAT ERROR	S OR OMISSIONS SE	'ENIENCE OF THE US IALL NOT BE MADE T	HE BASIS FO	FURNISHED W	VITHOUT F	RESPONSI	BILITY FO	OR ACCURA	CY OR COM	ITENT. IT	IS

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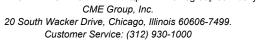
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GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA C	ISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INT	OPEN EREST
	PANHANDLE PIF	PE OPTION			0.1369 - 0.0091	4206					240	UN
					0.1309 - 0.0091	.4206					240	UN
С	PJM WEST HUB	REAL-TIME PK 5	MW OPT									
					0.01 UNCH 0.18 - 0.02	.1170					60 20	UN UN
					0.34 - 0.04 0.46 - 0.04	.2516					40 10	UN
					2.23 + 0.10 0.60 - 0.06	.3098					10 40	UN
					1.56 + 0.08 0.78 - 0.06	.3749					40 40	UI UI
					1.27 + 0.07 0.99 - 0.07 1.02 + 0.05	.4436					210 150 10	UI UI UI
					1.23 - 0.10 1.85 - 0.11	.5144					10 255	Ü
					0.65 + 0.03 0.18 UNCH	.3521					235 190	Ü
					0.04 UNCH						50 1370	Ŭ
					0.06 - 0.01						110	U
					0.25 - 0.02 1.05 - 0.05 1.43 - 0.06	.3013					120 40	UI
					2.57 + 0.09	.6233					10 50 20	U U U
					0.94 + 0.05	.3166					350	U
F	PJM WEST HUB	REAL-TIME PK CA	L 50 MW									
					0.01 UNCH 0.01 UNCH						21 567	U
					0.01 - 0.06 2.80 + 1.48	.0011					567 42 399	U U U
					1.85 + 1.17 0.06 + 0.05	.9693					147 441	UI
											1617	
					0.02 UNCH						23	U
					0.48 - 0.05 2.07 - 0.27	.5411					621 46	U
					$ \begin{array}{r} 1.03 + 0.33 \\ 0.16 + 0.08 \end{array} $						437 368	U
											1495	
					0.03 UNCH 0.87 - 0.15						19 513	U
					1.45 + 0.28 1.09 - 0.18	.5630					19 19	Ü
					3.52 - 0.37 0.27 + 0.06	.7970 -					38 19	Ü
											627	
					0.09 - 0.01	.0027					483	U
					1.62 - 0.13 0.30 + 0.07	.1800					621 460	U
					4.78 - 0.23	.9191					46 1610	U
					0.17 - 0.02	.0992					441	U
					1.96 - 0.12 0.33 + 0.05	.5960					567 420	Ü
					5.15 - 0.19						42 1470	U
					0.10	0500					420	
					0.18 - 0.01 1.27 - 0.07	.3261					420 540	U
					$\begin{array}{r} 1.95 + 0.11 \\ 3.37 - 0.13 \end{array}$						400 40 1400	U
											1400	
					$ \begin{array}{rrrr} 1.61 & - & 0.05 \\ 3.98 & + & 0.08 \end{array} $						308 220	l
											528	
					3.21 - 0.08						280	U
					3.63 + 0.09	.3791					200 480	U
					4.49 + 0.11	.6852					44	U
					1.72 - 0.12						44 88	Ü
											00	
					2.96 - 0.09 2.56 + 0.12	. 1030					44 44	U
											88	
					0.40 - 0.01						20	L
					11.57 + 0.14	.9204					20 40	ι
					9.13 + 0.13	.8687					20	u
					0.70 - 0.02						20 40	Ü
					3.37 + 0.07 2.75 - 0.05						23 23	l
											46	
					5.24 - 0.08						22 22	U
					1.35 + 0.03	.3313					44	U
					5.34 - 0.07	.6697					20	U
					1.36 + 0.04						20	U

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PRICE INDICATOR KEY

R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID
NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES,
THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

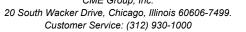
•	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		OPEN EREST
PMA OOI TOTAL	F	PJM WEST HUB	REAL-TIME PK CA	AL 50 MW					VOLUME		40	
JUN21 3500 3500				====		5.24 - 0.0 1.45 + 0.0					 22 22 44	UNCH UNCH
TOTAL JUL21 3500 3500				====		4.29 + 0.0 2.43 - 0.0					 21 21	UNCH UNCH
TOTAL AUG21 3500 3500						3.75 - 0.0 2.66 + 0.0	6 .5104 6 .4895				 42 22 22	UNCH UNCH
TOTAL SEP21 3500				<u> </u>		5.59 - 0.0 1.43 + 0.0	6 .6671				 44 21	UNCH UNCH
3500 TOTAL DCT21 3500						6.73 - 0.0	8 .7405				 21 42 21	UNCH
3500 TOTAL NOV21 3500						0.99 + 0.0 6.75 - 0.0					 21 42 21	UNCH
3500 TOTAL DEC21						1.01 + 0.0	2 .2619				 21 42	UNCH
3500 3500 TOTAL					====	4.70 - 0.0 2.13 + 0.0					 23 23 46	UNCH
RPF CAI	LL	POWDR RIVR CO	DAL OPT ON QTY I	FUT STRP								
1200 1250 TOTAL						0.50 UNC 0.24 UNC					 110 15 125	UNCH UNCH
ZA PUT JUL18 50		RBOB 1 MO CAL	SPD OPTIONS			0.0001 UNC	н .0033				 200 200	UNCH
TOTAL											200	
RA CALI OCT18 17500	L 	RBOB APO (AVE	ERAGE PRICE) OP	TIONS		0.2324 + 0.036	2 .8037				 50	UNCH
19500 22000 22500 TOTAL						0.1054 + 0.024 0.0288 + 0.009 0.0215 + 0.007	0 .5278 2 .2050				 10 10 5 75	UNCH UNCH UNCH
NOV18 17500 19500						0.2303 + 0.033 0.1120 + 0.021 0.0389 + 0.010	7 .5093				 50 10 10	UNCH UNCH UNCH
22000 22500 26500 TOTAL						0.0310 + 0.008 0.0039 + 0.001	3 .1932				 5 20 95	UNCH
DEC18 17500 19500 22000						0.2390 + 0.030 0.1237 + 0.021 0.0464 + 0.010	8 .5118 9 .2517				 50 10 10	UNCH UNCH UNCH
22500 TOTAL JAN19						0.0374 + 0.009 0.0572 + 0.011					 5 75 10	UNCH
22000 22500 TOTAL FEB19				====		0.0473 + 0.010	1 .2401				 5 15	UNCH
22000 22500 TOTAL RA PUT		 				0.0694 + 0.012 0.0586 + 0.011					 10 5 15	UNCH UNCH
JUN18 17900 20500			ERAGE PRICE) OP	 	====	0.0001 UNC					 100 25 125	UNCH UNCH
TOTAL SEP18 15000 TOTAL						0.0010 - 0.000	4 .0110				 100 100	UNCH
OCT18 15000 FOTAL						0.0041 - 0.001	1 .0332				 50 50	UNCH
NOV18 15000 TOTAL						0.0094 - 0.001	6 .0600				 50 50	UNCH
DEC18 15000 TOTAL						0.0140 - 0.001	9 .0773				 50 50	UNCH
RF PUT OCT18		RBOB EURO EXF	PIRATION OPTION									
13000 FOTAL						0.0001 UNC	н .0011				 125 125	UNCH
PJ CALI NOV18 2250 TOTAL	L 	SAN JUAN PIPE	E OPTION			0.0800 - 0.000	3 .4094				 180 180	UNCH
DEC18							7 .7863					

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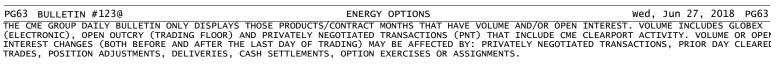
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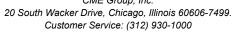
3250							VOLUME			EREST
JAN19 2250 3250	SAN JUAN PIPE	OPTION					VOLUME		428	
3250	 		 	0.4352 + 0.010	.63 .81	48		 	180	UNCH
	 		 	0.0567 + 0.000 0.0410 + 0.000	32 .19	48		 	186 124	UNCH
	 		 	0.0196 + 0.00				 	124 614	UNCH
FEB19	 		 	0.3641 + 0.01	.63 .69	91		 	180	UNCH
3150	 		 	0.0888 + 0.00 0.0619 + 0.00	48 .24	24		 	168 112	UNCH
3750 TOTAL	 		 	0.0377 + 0.00	22 .11	46		 	112 572	UNCH
MAR19	 		 	0.1884 + 0.01	47 .47	16		 	180	UNCH
TOTAL									180	
7A CALL	WTI CRUDE OIL	1 M CSO ETN								
AUG18	 		 	1.26 + 0.3				 	1000	UNCH
65	 		 	1.02 + 0.1 0.91 + 0.1	16 .86	01		 	7125 750	UNCH
80	 		 	0.85 + 0.0 0.81 + 0.0 0.70 + 0.0	16 .78	89		 200 	750 - 1000 2750	200 UNCH UNCH
	 		 	0.48 + 0.1				 200	700 14075 -	UNCH 200
SEP18				1.07	12 02	50			1000	
50	 		 	1.07 + 0.1 0.87 + 0.1 0.82 + 0.1	12 .83	94		 	1000 3625 3000	UNCH UNCH UNCH
65	 		 	0.82 + 0. 0.78 + 0. 0.71 + 0.	14 .76	20		 200	750 2800 -	UNCH 50
80	 		 	0.68 + 0.5 0.55 + 0.0	12 .70 09 .62	25 42		 500	1000 2500 +	UNCH 500
	 		 	0.33 + 0.0		44		 700	500 15175 +	UNCH 450
OCT18	 		 	0.63 + 0.3	15 .72	52		 	1000	UNCH
50 65	 		 	0.48 + 0. 0.40 + 0.	15 .60 14 .54	93 07		 	1625 750	UNCH UNCH
75 80	 		 	0.36 + 0.1 0.34 + 0.1	13 .47	40		 200	600 - 1000	UNCH
150	 		 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				 500	2250 + 500	500 UNCH
TOTAL NOV18								700	7725 +	300
25	 		 	0.50 + 0.1 0.36 + 0.1				 	1000 1625	UNCH UNCH
65	 		 	0.30 + 0.1 0.27 + 0.1	11 .43	35		 200	750 600 -	UNCH 200
100	 		 	0.26 + 0.1 0.21 + 0.1	10 .33	76		 500	1000 2250 +	UNCH 500
150 TOTAL	 		 	0.16 + 0.3	11 .22	83		 700	500 7725 +	UNCH 300
23	 		 	0.47 + 0.0				 	1000	UNCH
65	 		 	0.35 + 0.1 0.28 + 0.0	08 .45	99		 	1625 750 600 -	UNCH UNCH 200
80	 		 	0.24 + 0.0 0.23 + 0.0 0.18 + 0.0	06 .39	08		 200 500	1000 - 1000 +	UNCH 500
	 		 	0.12 + 0.0		65		 700	500 9225 +	UNCH 300
JAN19				0.22	00 40	0.5				
100	 		 	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				 	1750 1750 3500	UNCH
TOTAL FEB19									3300	
13	 		 	0.20 + 0.0 0.14 + 0.0		65 54		 	1750 1750	UNCH UNCH
TOTAL MAR19									3500	
75	 		 	0.20 + 0.0 0.13 + 0.0		35 00		 	1750 1750	UNCH UNCH
TOTAL									3500	
13	 		 	0.17 + 0.0				 	1750	UNCH
TOTAL	 		 	0.12 + 0.0	01 .24	29		 	750 2500	UNCH
13	 		 	0.17 + 0.0				 	1750	UNCH
	 		 	0.12 + 0.0	01 .23	62		 	750 2500	UNCH
JUN19	 		 	0.19 + 0.0	01 .35	00		 	1750	UNCH
100 TOTAL	 		 	0.13 + 0.0				 	750 2500	UNCH
JUL19	 		 	0.17 . 0.4	01 22	56				LINICH
75 TOTAL	 		 	0.17 + 0.0	01 .32	56		 	500 500	UNCH
AUG19 75	 		 	0.16 + 0.0	01 .31	19		 	500	UNCH
TOTAL SEP19									500	
75	 		 	0.16 + 0.0	01 .30	22		 	500 500	UNCH
TOTAL OCT19										
	 		 	0.14 + 0.0	02 .28	65		 	500 500	UNCH
NOV19	 		 	0.14 + 0.0	01 .27	77		 	500	UNCH
TOTAL	 -	-	 -	0.14 + 0.0	O1 .27	,,		 -	500	UNCH
DEC19 75	 		 	0.15 UN	сн .30	06		 	500	UNCH
TOTAL 7A PUT	WTT CDIIDE OTI	. 1 M CSO FIN							500	
AUG18	 WIT CHODE OIL	. I M COU FIN	 					 		

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FINAL

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TRADES, POSITION ADJUSTMENTS, DELIVERIES, CASH SETTLEMENTS, OPTION EXERCISES OR ASSIGNMENTS.

GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME V	PNT OLUME		OPEN EREST
	WTI CRUDE OIL	1 M CSO FIN			0.01 UNCH					50	UNC
					0.01 UNCH 0.01 UNCH	.0008 .0029				100 2000	UNC
					0.01 - 0.01	.0037				2000	UNC
					$ \begin{array}{rrrr} 0.01 & - & 0.01 \\ 0.01 & - & 0.01 \end{array} $.0047 .0059				500 100	UNC
					0.01 - 0.02 0.01 - 0.04	.0091 .0203				4500 1150	UNC
					0.01 - 0.04 0.01 - 0.05	.0245 .0294				2000 1000	UNC
					0.01 - 0.06 0.02 - 0.09	.0351				300 1000	UNC
					0.01 UNCH	.0000				14700	
					0.01 UNCH	.0057				50 100	UNG
					$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.0147				2000 500	UNG
					0.01 - 0.02 0.01 - 0.03	.0245 .0338				100 6500	UNG
					0.02 - 0.05 0.02 - 0.05	.0619 .0639			700	1150 1700 +	UN0 70
					0.03 - 0.05 0.04 - 0.05	.0860 .1060				1000 300	UNG
					0.07 - 0.06 0.12 NEW	.1605 .2225			500	1000 500 +	UN 5
					0.16 NEW	.2759			700 1900	700 + 15600 +	70 190
									2500	25000 .	
					0.01 UNCH 0.02 UNCH	.0229 .0577				50 100	UNG
					0.04 - 0.01	.1042				2000	UNG
					$ \begin{array}{cccccccccccccccccccccccccccccccccccc$.1265				500 100	UN
					0.07 - 0.02 0.12 - 0.02	.1680 .2492				2300 750	UN
					0.14 - 0.02 0.15 - 0.02	.2747				1000 1000	UN
					0.17 - 0.02	.3170				300 8100	UN
					0.01 UNCH 0.02 - 0.01	.0242 .0625				50 100	UN UN
					0.03 - 0.02 0.04 - 0.03	.0956 .1222				2000 500	UN
					0.05 - 0.03	.1439				100 2300	UN
					0.12 - 0.05	.2774				750	UN
					0.14 - 0.06 0.16 - 0.06	.3060 .3336				1000 1000	UN
					0.18 - 0.06	.3605				300 8100	UN
					0.01 UNCH 0.02 - 0.01	.0246 .0642				50 2050	UNG
					0.04 - 0.02	.1171				3500	UNG
					0.06 - 0.02	.1430				500 100	UNG
					0.07 - 0.04 0.13 - 0.05	.1919 .2960				5550 1000	UNG
					0.15 - 0.05 0.18 - 0.04	.3245 .3573				1700 1000	UNG
					0.20 - 0.04 0.33 - 0.05	.3834 .5152				300 250	UN
					2.33					16000	314
					0.05 - 0.02	.1323				250	UN
					0.09 - 0.03 0.16 - 0.03	.2143 .3279				750 450	UN UN
					0.25 - 0.05	.4557				1000 2450	UN
										2430	
					0.06 - 0.02	.1536				250	UN
					0.11 - 0.02 0.18 - 0.03	.2469 .3607				750 450	UN
					0.29 - 0.05	.4945				1000 2450	UN
					0.07 - 0.01 0.12 - 0.03	.1713 .2640				250 750	UN UN
					0.20 - 0.03 0.32 - 0.04	.3836 .5157				250 1000	UN
					2.32 0.04					2250	514
					0.08 - 0.01	.1897				250	1181
					0.13 - 0.02	.2836				250 750	UN
					0.21 - 0.01	.4064				250 1250	UN
					0.00	2655					
					0.09 UNCH 0.14 - 0.02	.2066 .3011				250 750	UN UN
					0.23 - 0.01	.4290				250 1250	UN
										1230	
					0.09 - 0.01	.1980				250	UN
					0.14 - 0.02 0.22 - 0.02	.2864 .4019				750 250	UN UN
										1250	
					0.15 - 0.01	.3055				500	UN
										500	
					0.15 - 0.02	.3134				500	UN
										500	
					0.18 - 0.01	.3421				500	UN
					0.01					500	511
					0.12 - 0.01	.3061				500	UN
					0.01					500	514
					0.14 - 0.01	.3345				500	UN
					· -					500	

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PRICE INDICATOR KEY
R= RECORD VOLUME OR OPEN INTEREST, B= BID, A=ASK, P= POST SETTLEMENT SESSION,N= NOMINAL CLOSE, WHICH DESIGNATES THAT THE CONTRACT DID NOT TRADE DURING THE RTH SESSION AND NO BETTER BID OR BETTER OFFER OCCURRED DURING THE RTH CLOSING RANGE TIME PERIOD. IN ALL INSTANCES, THE NOMINAL PRICE IS THE PREVIOUS DAY'S SETTLEMENT PRICE.

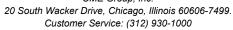
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
7A PUT DEC19		WTI CRUDE OIL	1 M CSO FIN										
0 TOTAL						0.12 - 0.01	.2970					500 500	UNCH
WA CALI AUG18 0	L 	WTI CRUDE OIL	1MO CAL SPRD OPT	FIONS		1.51 + 0.23	.9886					150	UNCH
25 50						1.26 + 0.21 1.02 + 0.16	.9712				2000	1125 17125 -	UNCH 1500
55 60						0.98 + 0.16 0.95 + 0.17	.9139					400 100	UNCH
70 75			#0.92B/ #0.89B/	#0.92B/ #0.89B/		0.88 + 0.17 0.85 + 0.17	.8310 .8047					1000 9850	UNCH
80 100			#0.86B/ #0.74B/	#0.86B/ #0.74B/		0.81 + 0.16 0.70 + 0.14	.7889					1500 4050	UNCH
150			#0.74B/ #0.48B/	#0.74B/ #0.48B/		0.48 + 0.10	.5000					1700	UNCH
200 300						$ \begin{array}{r} 0.32 + 0.05 \\ 0.12 + 0.02 \end{array} $.3510 .1499					1000 1000	UNCH
TOTAL SEP18											2000	39000 -	1500
0						$\begin{array}{r} 1.31 + 0.15 \\ 1.07 + 0.13 \end{array}$.9703 .9360					250 1125	UNCH UNCH
25 40						0.95 + 0.13	.8750					100 7875	UNCH
50 55						0.84 + 0.13	.8394 .8115					400	UNCH
50 55 60 65			#0.77B/ #0.73B/	#0.77B/ #0.73B/		0.82 + 0.14 0.78 + 0.14	.7774					100 100	UNCH
70 75			#0.69B/ #0.68B/	#0.69B/ #0.68B/		0.75 + 0.14 $0.71 + 0.13$.7395 .7241					1000 4500	UNCH
80 100			#0.65B/ #0.51B/	#0.65B/ #0.51B/		0.68 + 0.12 0.55 + 0.09	.7025 .6242					1400 900	UNCH
125 150			#0.38B/ #0.29B/	#0.38B/ #0.29B/		0.43 + 0.08 0.33 + 0.06	.5198 .4244					1000 1000	UNCH
175 TOTAL			#0.21B/	#0.21B/		0.25 + 0.05	.3398					100 19850	UNCH
OCT18						0.01	0210					2250	
0 25			#0.61B/	#0.61B/		$ \begin{array}{r} 0.81 + 0.15 \\ 0.63 + 0.15 \end{array} $.8319					2250 525	UNCH
35 50			#0.55B/ #0.46B/	#0.55B/ #0.46B/		0.56 + 0.15 0.48 + 0.15	.6829 .6093					100 7725	UNCH
55 65			#0.39B/	#0.39B/		$ \begin{array}{r} 0.45 + 0.15 \\ 0.40 + 0.14 \end{array} $.5870 .5407					400 100	UNCH
70 75			#0.34B/	#0.34B/		$ \begin{array}{r} 0.38 + 0.14 \\ 0.36 + 0.14 \end{array} $.5178 .4956				1000	1000 7050 +	UNCH 1000
80 100			#0.33B/ #0.28B/	#0.33B/ #0.28B/		$ \begin{array}{r} 0.34 + 0.13 \\ 0.28 + 0.13 \end{array} $.4740 .3962				250	1500 3650 +	UNCH 250
150 TOTAL			#0.19B/	#0.19B/		0.18 + 0.11	.2556				1250	200 24500 +	UNCH 1250
NOV18													
0 20			#0.50B/	#0.50B/		$ \begin{array}{r} 0.68 + 0.16 \\ 0.53 + 0.14 \end{array} $.8144 .7225					2150 100	UNCH UNCH
20 25 50			#0.47B/ #0.34B/	#0.47B/ #0.34B/		$ \begin{array}{r} 0.50 + 0.13 \\ 0.36 + 0.12 \end{array} $.6939 .5580					525 8025	UNCH UNCH
55 70						$ \begin{array}{r} 0.34 + 0.12 \\ 0.29 + 0.12 \end{array} $.5310 .4568					400 1000	UNCH UNCH
75 80			#0.26B/ #0.24B/	#0.26B/ #0.24B/		0.27 + 0.11 0.26 + 0.12	.4335 .4131				1000	7350 + 1550	1000 UNCH
100 150			#0.20B/ #0.15B/	#0.20B/ #0.15B/		$ \begin{array}{rrrr} 0.21 & + & 0.10 \\ 0.16 & + & 0.11 \end{array} $.3376 .2283				250 	3750 + 200	250 UNCH
TOTAL											1250	25050 +	1250
DEC18 0						0.64 + 0.10	.8080					2250	UNCH
25 45			#0.45B/ #0.34B/	#0.45B/ #0.34B/		$ \begin{array}{r} 0.47 + 0.09 \\ 0.37 + 0.10 \end{array} $.6754 .5623					225 200	UNCH UNCH
45 50 55 65	0.31	0.31	#0.32B/0.31	#0.32B/0.31		$ \begin{array}{r} 0.35 + 0.10 \\ 0.32 + 0.09 \end{array} $.5355 .5103			100	900	7725 - 400	900 UNCH
65 70			#0.26B/	#0.26B/		$0.28 + 0.08 \\ 0.26 + 0.07$.4599 .4355					200 1000	UNCH UNCH
75 80			#0.23B/ #0.22B/	#0.23B/ #0.22B/		0.24 + 0.06 0.23 + 0.06	.4114				1000	7250 + 1450	1000 UNCH
100 150			#0.17B/ #0.12B/	#0.17B/ #0.12B/		0.18 + 0.05 0.12 + 0.07	.3135				250	3750 + 200	250 UNCH
TOTAL			"01115)	"01125/		0.11	.1303			100	2150	24650 +	350
JAN19 75			#0.22B/	#0.22B/		0.22 + 0.06	.4095					3500	UNCH
100 TOTAL			#0.15B/	#0.15B/		0.15 + 0.05	.2978					3850 7350	UNCH
FEB19													
75 100			#0.20B/ #0.14B/	#0.20B/ #0.14B/		0.20 + 0.03 0.14 + 0.03	.3765 .2754					3500 3250	UNCH UNCH
TOTAL			,	·								6750	
MAR19 75			#0.19B/	#0.19B/		0.20 + 0.04	.3635					3500	UNCH
100 TOTAL			#0.13B/	#0.13B/		0.13 + 0.03	.2600					3250 6750	UNCH
APR19													
75 100			#0.17B/ #0.12B/	#0.17B/ #0.12B/		$ \begin{array}{rrrr} 0.17 + 0.01 \\ 0.12 + 0.01 \end{array} $.3338 .2429					3000 2750	UNCH UNCH
TOTAL												5750	
MAY19 75			#0.17B/	#0.17B/		0.17 + 0.01	.3229					3000	UNCH
100 TOTAL			#0.12B/	#0.12B/		0.12 + 0.01	.2362					2750 5750	UNCH
JUN19			""	""									
75 100			#0.19B/ #0.13B/	#0.19B/ #0.13B/		$ \begin{array}{r} 0.19 + 0.01 \\ 0.13 + 0.01 \end{array} $.3500 .2545					3000 2750	UNCH UNCH
TOTAL												5750	
WA PUT AUG18			1MO CAL SPRD OPT			0.01						2	
- 150 - 100						0.01 UNCH 0.01 UNCH	.0000					250 2150	UNCH
- 40 - 25						0.01 UNCH 0.01 UNCH	.0019					1200 5125	UNCH
- 15 0						0.01 - 0.01 0.01 - 0.02	.0060 .0113					100 7025	UNCH UNCH
10 15						0.01 - 0.03 0.01 - 0.03	.0166 .0200					50 1100	UNCH UNCH
20 25						0.01 - 0.04 0.01 - 0.04	.0240 .0287					900 2250	UNCH UNCH
30 40			/*0.07A	/*0.07A		0.01 - 0.05 0.02 - 0.06	.0340 .0595					1850 1500	UNCH UNCH
45 50			/*0.10A	/*0.10A		0.02 - 0.07 0.02 - 0.09	.0614 .0635					500 1500	UNCH UNCH
TOTAL				•								25500	
SEP18	EODMATTO	N CONTAINED IN T	THIS DEBORT TO CO	MDTIED FOR THE CON	JVENTENCE OF THE !!	SER AND IS FURNISHED	WITUOUT	DECDONIC	RTITTY 5	OP ACCUE	CV OP CO	NTENT TT	TS
VCCEDT		LUCED ON THE CO	NDITION THAT ERR	ORE OR OMISSIONS	NOT BE MADE			, 0,13	F		on co	11	

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ENERGY OPTIONS

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,	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME		INTE	OPEN REST
WA PUT		WTI CRUDE OIL	1MO CAL SPRD OP	TIONS					VOLUME				
SEP18 - 150						0.01 UNCH 0.01 UNCH	.0000					250 2150	UNCH
- 100 - 40						0.01 - 0.01 0.01 - 0.01	.0068					1100 6500	UNCH
- 25 - 15						0.01 - 0.02	.0176					100	UNCH
0 5						0.01 - 0.03 0.01 - 0.04	.0296					7075 100	UNCH
10 15						0.02 - 0.03 0.02 - 0.04	.0584 .0601					100 1000	UNCH UNCH
15 20 25						0.02 - 0.05 0.02 - 0.05	.0619 .0639					900 4000	UNCH UNCH
30 40						0.03 - 0.05 0.05 - 0.05	.0860 .1249					1850 1500	UNCH UNCH
45 50						0.06 - 0.05 0.07 - 0.06	.1430 .1605				1000	500 1600 +	UNCH 350
60 75						0.12 - 0.04 0.16 - 0.05	.2225				900	1400 + 2000	900 UNCH
100						0.25 NEW	.3757				500 2400	500 + 32625 +	500 1750
TOTAL OCT18											2100	32023 1	1730
- 150 - 100						0.01 UNCH 0.01 UNCH	.0068					250 2150	UNCH UNCH
- 40 - 25						0.02 - 0.01 0.04 - 0.01	.0611					1100 4675	UNCH
- 15			 /0.06A	 /0.06A		0.05 - 0.01 0.07 - 0.02	.1265					200 7000	UNCH
0 5				/0.00A 		0.08 - 0.02	.1861					100	UNCH
15 20						0.11 - 0.02 0.12 - 0.02	.2316					1000 600	UNCH
25 30	0.14	0.14	0.14/0.14	0.14/0.14		0.14 - 0.02 0.15 - 0.02	.2747 .2926			100		12400 + 1750	100 UNCH
40 45						0.19 - 0.02 0.21 - 0.02	.3408 .3642					1000 500	UNCH UNCH
50 TOTAL						0.24 - 0.02	.3906			100		1100 33825 +	UNCH 100
NOV18													
- 150 - 100						0.01 UNCH 0.01 UNCH	.0066 .0295					250 2150	UNCH UNCH
- 40 - 25			/*0.03A /0.04A	/*0.03A /0.04A		0.02 - 0.02 0.03 - 0.02	.0665 .0956					1100 4625	UNCH
- 15 0			/0.04A /0.08A	/0.04A /0.08A		0.04 - 0.03 0.07 - 0.03	.1222 .1855					200 6900	UNCH
5 15			/0.10A /0.13A	/0.10A /0.13A		0.08 - 0.04	.2060					100 1000	UNCH
20			/0.14A /0.16A	/0.14A /0.16A		0.12 - 0.05 0.14 - 0.06	.2774					600 11550	UNCH
20 25 30 35			/0.19A /0.22A	/0.19A /0.22A		0.16 - 0.06 0.18 - 0.06	.3336					1750 100	UNCH
40			/0.25A	/0.25A		0.20 - 0.06	.3870					1000	UNCH
45 50			/0.28A /0.31A	/0.28A /0.31A		0.22 - 0.07 0.25 - 0.07	.4134 .4419					500 1100	UNCH UNCH
TOTAL												32925	
DEC18 - 150						0.01 UNCH	.0066					250	UNCH
- 100 - 50			/0.02A	/0.02A		0.01 UNCH 0.02 - 0.01	.0302 .0642					2150 1700	UNCH UNCH
- 40 - 25			/*0.03A /0.04A	/*0.03A /0.04A		0.03 - 0.01 0.04 - 0.02	.0888 .1171					1100 4725	UNCH UNCH
- 15 0			/0.06A /0.09A	/0.06A /0.09A		0.05 - 0.02 0.07 - 0.04	.1430 .1919					300 13700	UNCH
5 10			/0.11A /0.12A	/0.11A /0.12A		0.09 - 0.03 0.10 - 0.04	.2248					100 100	UNCH
15			/0.14A /0.15A	/0.14A /0.15A		0.12 - 0.04 0.13 - 0.05	.2751					1000 600	UNCH
20 25	0.15	0.15	0.15/0.15 /0.21A	0.15/0.15 /0.21A		0.15 - 0.05 0.18 - 0.04	.3245			100		13800 1750	UNCH
30 40			/0.21A 	/0.21A /0.28A		0.23 - 0.03 0.25 - 0.04	.4124					1000 500	UNCH
45 50			/0.31A	/0.28A /0.31A		0.28 - 0.04	.4376 .4644					1000	UNCH
TOTAL										100		43775	
JAN19 - 40						0.04 - 0.01	.1055					100	UNCH
- 25 0			/*0.05A /*0.11A	/*0.05A /*0.11A		0.05 - 0.02 0.09 - 0.03	.1323					4500 9450	UNCH
25 TOTAL	0.17	0.17	#0.17/*0.17	#0.17/*0.17		0.16 - 0.03	.3279			100 100		3300 + 17350 +	100 100
FEB19													
- 40 - 25			/*0.05A	/*0.05A		0.05 - 0.01 0.06 - 0.02	.1257 .1536					100 4500	UNCH UNCH
0 25	0.19	0.19	/*0.10A 0.19/*0.19	/*0.10A 0.19/*0.19		0.11 - 0.02 0.18 - 0.03	.2469 .3607			100		8700 3500 +	UNCH 100
TOTAL										100		16800 +	100
MAR19 - 40						0.05 - 0.01	.1290					100	UNCH
- 25 0			/*0.06A /*0.11A	/*0.06A /*0.11A		0.07 - 0.01 0.12 - 0.03	.1713					4500 8700	UNCH
25	0.20	0.20	0.20/*0.20	0.20/*0.20		0.20 - 0.03	.3836			100 100		3500 + 16800 +	100 100
TOTAL APR19										100		10000	100
- 25 0			/0.07A /0.13A	/0.07A /0.13A		0.08 - 0.01 0.13 - 0.02	.1897 .2836					4600 4250	UNCH
25						0.13 - 0.02 0.21 - 0.01	.4064					2000 10850	UNCH
TOTAL MAY19												10030	
- 25			 /*0 144	 /*0 144		0.09 UNCH	.2066					4600	UNCH
0 25			/*0.14A 	/*0.14A 		0.14 - 0.02 0.23 - 0.01	.3011 .4290					4250 2000	UNCH UNCH
TOTAL												10850	
JUN19 - 50						0.06 UNCH	.1370					100	UNCH
- 25 0			/0.08A /0.14A	/0.08A /0.14A		0.09 - 0.01 0.14 - 0.02 0.22 - 0.02	.1980					4600 4350	UNCH
25 TOTAL						0.22 - 0.02	.4019					2000 11050	UNCH
JUL19													
- 25 25						0.09 - 0.01 0.23 - 0.03	.2051 .4247					2000 1500	UNCH UNCH
TOTAL												3500	
AUG19 - 25						0.10 - 0.01	.2200					2000	UNCH
25 TOTAL						0.24 - 0.03	.4401					1500 3500	UNCH
SEP19													
- 25 25						0.11 - 0.02 0.28 - 0.02	.2361 .4645					2000 1500	UNCH UNCH
TOTAL												3500	
			THIS REPORT IS CO			SER AND IS FURNISHED					CY OR CO	NTENT. IT	IS

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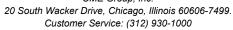
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C	LOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.P & PT.C			DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME			OPEN EREST
Т		WTI CRUDE OIL	1MO CAL SPRD OPT	TIONS		0.06 -		0.01	.1801					2000	UNCH
						0.22 -		0.01	.4616					1500 3500	UNCH
,						0.08 0.26 -	_	UNCH 0.02	.2138 .4882					2000 1500	UNCH
						0.20		0.02						3500	0.1.0.
;						0.07 0.22 -	-	UNCH 0.02	.1894 .4455					2000 1500 3500	UNCH
LL		WTI-BRENT SPR													
í						4.15 + 3.15 + 2.15 +	+	0.92 0.92 0.84	1.0000 .9999 .9973					300 100 100	UNCI UNCI UNCI
í						1.67 + 1.23 +	+	0.76	.9843					100 500	UNCI
í						0.83 + 0.50 0.23 +		0.46 NEW 0.12	.7953 .5734 .2981				635 435	100 635 + 235 -	UNCI 63 6
)						0.10 + 0.03 +	+	0.05 0.01	.1050					650 300	UNC
						0.01	•	UNCH	.0023				1070	500 3520 +	UNC 57
			#4.68B/4.32A	#4.68B/4.32A		4.94 + 3.23 +		0.59	.9130 .7895					100 750	UNCI
)			#3.12B/ #2.33B/ #2.02B/	#3.12B/ #2.33B/ #2.02B/		3.23 + 2.46 + 2.10 +	+	0.51 0.47 0.42	.7895 .7017 .6515					800 500	UNC UNC UNC
)			#1.67B/ #1.39B/	#1.67B/ #1.39B/		1.77 + 1.47 +	+	0.37	.5960					1750 1500	UNC
))			#1.16B/ #0.97B/	#1.16B/ #0.97B/		1.21 + 1.00 +	+	0.34 0.27	.4753 .4150					1500 2150	UNC UNC
))			#0.76B/ #0.46B/	#0.76B/ #0.46B/		0.84 + 0.58 +	+	0.23	.3600				500	1000 2500 +	UNC 50
						0.28 +	+	0.11	.1471				500	500 13050 +	UNC 50
			#2.59B/	#2.59B/		2.68 +		0.27	.6704					100	UNC
			#2.00B/ #1.11B/	#2.00B/ #1.11B/		2.05 + 1.08 +	+	0.23	.5775 .3815					500 1080	UNC
			#0.86B/ #0.46B/	#0.86B/ #0.46B/		0.89 + 0.48 +	+	0.15	.3339					100 1100	UNC
			#0.27B/	#0.27B/ 		0.30 + 0.24 + 0.15 +	+	0.05 0.04 0.03	.1440 .1191 .0792					500 500 500	UNC UNC
						0.13	_	0.03	.0732					4380	UNC
			#1.02B/	#1.02B/		1.03 +		0.09	.3495					30	UNC
						0.86 + 0.48 +	+	0.08	.3073					100 1350	UNC
						0.31 + 0.24 + 0.15 +	+	0.04 0.03 0.02	.1389 .1132 .0758					500 500 500	UNC UNC UNC
						0.15 +	_	0.02	.0736					2980	UNC
						3.52 +		0.06	.6926					500	UNCI
			/2.65A /2.37A	/2.65A /2.37A		2.84 + 2.52 +	+	0.03	.6219					1500 500	UNC
			/2.10A /1.85A /1.59A	/2.10A /1.85A /1.59A		2.23 + 1.94 + 1.68 +	+	0.01 0.01 0.03	.5442 .5033 .4614					500 2000 500	UNC UNC UNC
			1.02B/ /0.83A	1.02B/ /0.83A		1.05 + 0.88 +	+	0.04	.3372					4630 100	UNC
						0.73 + 0.61 +		0.02	.2601					1000 600	UNC
						0.50 + 0.40	+	0.01 UNCH	.1944 .1639					6450 5050	UNC
						0.33 0.26		UNCH	.1396					875 650	UNC
						0.21 0.16 - 0.13	-	UNCH 0.01 UNCH	.0962 .0771 .0640					6750 1050 250	UNC UNC UNC
			/0.07A	/0.07A		0.08 0.05		UNCH	.0418					41379 1000	UNC
						0.03 0.02		UNCH	.0172					12187 2500	UNC
						0.01		UNCH	.0058					1750 91721	UNC
						1.23 -	_	0.02	.3947					200	UNC
						0.60 - 0.40 -	-	0.02 0.01 0.01	.2337				500	750 + 200	50 UNC
						0.28 -		0.01	.1245				500	50 1200 +	UNC 50
						1 27		0.05	2050						
						1.27 - 0.64 - 0.44 -	-	0.05 0.03 0.02	.3856 .2344 .1744					200 250 200	UNC UNC UNC
						0.29 -		0.02	.1245					50 700	UNC
						a =-		0.00							
						1.79 - 1.35 -	-	0.08	.4628					2000 200	UNC
						0.70 - 0.49 - 0.34 -	-	0.04 0.02 0.02	.2402 .1819 .1348					250 200 50	UNC UNC
				-		0.34 -		0.02	.1340	-				2700	UNC
						1.38 -		0.07	.3814					200	UNC
						0.75 - 0.53 -		0.04 0.03	.2446 .1872					250 200	UNC
														650	
						1.44 - 0.80 -		0.07 0.04	.3833					200 250	UNC
						0.58		0.03	.1950					200 650	UNC
)						1.54 -		0.05	.3886					200	UNC

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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	EXER DELTA CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME	PNT VOLUME	INT	OPEN EREST
BV CAL	L	WTI-BRENT SPR	READ OPTION					VOLUME			650	
JUL19 - 700						1.58 - 0.05	.3863				200	UNCH
- 500 - 400						0.92 - 0.04 0.69 - 0.02	.2620				250 200	UNCH
TOTAL											650	
AUG19 - 700 - 500						1.61 - 0.06 0.96 - 0.03	.3850				200 250	UNCH
- 400 TOTAL						0.72 - 0.03	.2125				200 650	UNCH
SEP19 - 700						1.72 - 0.05	.3906				200	UNCH
- 500 - 400						1.05 - 0.04 0.80 - 0.03	.2741				250 250 200	UNCH
TOTAL											650	
OCT19 - 700 - 500						1.78 - 0.05 1.10 - 0.03	.3946				200 250	UNCH UNCH
- 400 TOTAL						0.84 - 0.03	.2285				200 650	UNCH
NOV19 - 700						1.88 - 0.05	.3999				200	UNCH
- 500 - 400						1.18 - 0.04 0.92 - 0.03	.2876				250 200	UNCH
TOTAL											650	
DEC19 - 950 - 700						3.15 - 0.06 1.92 - 0.05	.5570 .4071				1500 200	UNCH UNCH
- 600 - 500						1.53 - 0.04 1.19 - 0.05	.3485 .2921				1950 450	UNCH UNCH
- 400 - 200			 /0.30A	 /0.30A		0.91 - 0.06 0.52 - 0.05 0.30 - 0.05	.2399 .1545 .0967				200 250 7500	UNCH
0 200 300			/0.30A 	/0.30A 		0.30 - 0.03 0.19 - 0.03 0.15 - 0.02	.0631				100 450	UNCH UNCH UNCH
TOTAL		DOENT COD									12600	
BV PUT AUG18 -1200		WTI-BRENT SPR	READ OPTION			0.01 UNCH					100	UNCH
-1100 -1000						0.01 UNCH 0.01 UNCH					100 100	UNCH
- 800 - 700						0.01 UNCH 0.01 - 0.08	.0000				400 150	UNCH
- 650 - 600 - 550						0.03 - 0.16 0.09 - 0.27 0.19 - 0.46	.0156 .0748 .2046				100 300 100	UNCH UNCH UNCH
- 500 - 400						0.36 - 0.64 0.96 - 0.87	.4265				1960 550	UNCH
- 300 - 250						1.87 - 0.92 2.37 - 0.92	.9967 .9976				200 200	UNCH UNCH
TOTAL SEP18											4260	
-1600 -1200						0.01 UNCH 0.08 - 0.04	.0068				1000 1000	UNCH UNCH
-1100 -1000			/*0.33A	/*0.33A /*0.51A		0.15 - 0.07 0.26 - 0.11 0.43 - 0.15	.0870				100 500	UNCH
- 900 - 850 - 750			/*0.51A 0.71B/*0.65A /*0.91A	0.71B/*0.65A /*0.91A		0.43 - 0.15 0.54 - 0.16 0.80 - 0.24	.2105 .2528 .3484				1000 2050 250	UNCH UNCH UNCH
- 700 - 650			/*1.10A /*1.26A	/*1.10A /*1.26A		0.97 - 0.29 1.17 - 0.31	.4039 .4631				1100 1500	UNCH UNCH
- 600 - 550			/*1.52A /1.79A	/*1.52A /1.79A		1.41 - 0.32 1.70 - 0.39	.5246				300 1500	UNCH
- 500 - 400 - 300						2.04 - 0.43 2.78 - 0.46 3.55 - 0.53	.6399 .7353 .8213				2800 550 200	UNCH UNCH UNCH
- 250 TOTAL						3.97 - 0.55	.8528				200 14050	UNCH
OCT18 -1500						0.05 - 0.02	.0298				250	UNCH
-1300 -1300 -1200						0.16 - 0.05 0.26 - 0.07	.0819				100 100	UNCH
-1000 - 700			/1.92A	/1.92A		0.61 - 0.14 1.73 - 0.25	.2471				250 150	UNCH
- 600 - 550 - 500			/2.45A 	/2.45A 		2.29 - 0.28 2.59 - 0.31 2.93 - 0.34	.6185 .6661 .7109				1800 100 1025	UNCH UNCH UNCH
- 450 - 400						3.30 - 0.35 3.68 - 0.37	.7515 .7904				750 250	UNCH
- 300 - 250						4.50 - 0.40 4.93 - 0.42	.8559 .8808				200 200	UNCH UNCH
TOTAL NOV18											5175	
-1500 -1000						0.10 - 0.02 0.85 - 0.09	.0516				250 250	UNCH
- 700 - 600			/2.25A 	/2.25A 		$ \begin{array}{rrrrr} 2.11 & - & 0.17 \\ 2.70 & - & 0.20 \\ 3.03 & - & 0.21 \end{array} $.5619 .6505 .6926				150 1800 100	UNCH UNCH UNCH
- 550 - 500 - 450						3.39 - 0.22 3.75 - 0.23	.7328 .7721				1025 750	UNCH UNCH
- 400 - 300						4.14 - 0.24 4.97 - 0.25	.8028 .8610				250 200	UNCH UNCH
- 250 TOTAL						5.39 - 0.26	.8867				200 4975	UNCH
DEC18 -1500						0.24 - 0.01	.0943				1500	UNCH
-1400 -1200						$\begin{array}{cccc} 0.33 & - & 0.01 \\ 0.64 & + & 0.01 \\ 1.00 & - & 0.03 \end{array}$.1249				100 1250 500	UNCH
-1050 -1000 - 950			/1.15A	/1.15A		$ \begin{array}{r} 1.00 & - & 0.03 \\ 1.15 & - & 0.04 \\ 1.31 & - & 0.06 \end{array} $.3073 .3419 .3780			1500	500 4650 1500	UNCH UNCH UNCH
- 900 - 850			/1.52A /1.73A	/1.52A /1.73A		1.49 - 0.08 1.69 - 0.08	.4161 .4558				500 500	UNCH UNCH
- 800 - 750			/1.97A 	/1.97A 		1.90 - 0.08 2.14 - 0.06 2.40 - 0.03	.4966 .5386 .5805				4000 500 400	UNCH
- 700 - 600 - 550			3.07B/	3.07B/		3.00 - 0.05 3.32 - 0.06	.6627				3800 100	UNCH UNCH UNCH
- 500 - 450						3.67 - 0.07 4.05 - 0.07	.7398 .7734				2675 750	UNCH UNCH
- 400 - 300						4.43 - 0.08 5.26 - 0.09 5.68 - 0.09	.8055 .8603 .8846				3996 3933 325	UNCH UNCH UNCH
- 250 - 200 - 150					 	5.68 - 0.09 6.13 - 0.09 6.58 - 0.10	.9037				300 200	UNCH UNCH UNCH
TOTAL						1.10	-			1500	31479	
- 150 TOTAL JAN19 THE IN	FORMATIO	N CONTAINED IN T	THIS REPORT IS CO	OMPILED FOR THE CON	VENIENCE OF THE U		.9228	IBILITY F	OR ACCURA	1500	200 31479)

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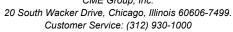
				SETTLEMENT PRI							
	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA CISE	OPEN S OUTCRY VOLUME			OPEN EREST
BV PUT JAN19		WTI-BRENT SPR				1.05	2427			200	
-1000 - 600						1.05 UNCH 3.02 + 0.01	.3437		 	200 45	UNCH
- 500 - 450						3.74 + 0.02 $4.13 + 0.02$.7662 .8001		 	1250 250	UNCH
- 400 - 300						4.53 + 0.02 5.41 + 0.02	.8301 .8754		 	100 350	UNCH UNCH
- 250 TOTAL						5.86 + 0.03	.8922		 	300 2495	UNCH
FEB19											
-1000 - 600						1.22 + 0.03 $3.26 + 0.08$.3669 .6955		 	200 45	UNCH UNCH
- 500 - 450						3.97 + 0.08 4.35 + 0.08	.7655 .8047		 	1250 250	UNCH UNCH
- 400 - 300						4.76 + 0.09 5.60 + 0.09	.8255 .8754		 	100 350	UNCH UNCH
- 250 TOTAL						6.04 + 0.10	.9113		 	300 2495	UNCH
MAR19											
-1000 - 900						$ \begin{array}{rrrr} 1.41 & + & 0.04 \\ 1.80 & + & 0.06 \end{array} $.3846 .4589		 	200 1000	UNCH UNCH
- 600 - 500						$ 3.42 + 0.09 \\ 4.13 + 0.10 $.6915 .7597		 	1045 1250	UNCH UNCH
- 450 - 400						$\begin{array}{cccccccccccccccccccccccccccccccccccc$.7999 .8181		 	250 100	UNCH UNCH
- 300 - 250						5.74 + 0.12 6.18 + 0.12	.8651 .9034		 	350 300	UNCH
TOTAL						0.10 . 0.11	.505			4495	oe
APR19 -1000						1.48 + 0.05	.3931		 	200	UNCH
- 600 - 500						3.54 + 0.10 $4.26 + 0.13$.6950 .7553		 	45 1250	UNCH
- 450 - 400						4.63 + 0.13 5.03 + 0.14	.7951 .8127		 	250 100	UNCH
- 300 - 250						5.86 + 0.15 6.29 + 0.14	.8754 .8988		 	350 300	UNCH
TOTAL						0.23 1 0.11	.0300			2495	onen
MAY19 -1000						1.57 + 0.05	.3990		 	200	UNCH
- 600 - 500						3.64 + 0.10 4.33 + 0.11	.6893 .7496		 	45 1250	UNCH
- 450						4.70 + 0.10	.7892 .8049		 	250 100	UNCH
- 400 - 300						5.92 + 0.13	.8688 .8913		 	350 300	UNCH
- 250 TOTAL						6.35 + 0.12	.0913		 	2495	UNCH
JUN19						1.67 + 0.05	.4035		 	200	UNCU
-1000 - 600						3.71 + 0.07	.6829		 	45	UNCH
- 500 - 450						4.41 + 0.09 4.77 + 0.09	.7787		 	1250 250	UNCH
- 400 - 300						5.16 + 0.10 5.96 + 0.11	.7942 .8602		 	100 350	UNCH
- 250 TOTAL						6.39 + 0.11	.8817		 	300 2495	UNCH
JUL19											
-1000 - 600						$ \begin{array}{r} 1.78 + 0.04 \\ 3.85 + 0.08 \end{array} $.4123 .6820		 	200 45	UNCH UNCH
- 500 - 450						4.53 + 0.08 4.90 + 0.09	.7379 .7752		 	1250 250	UNCH UNCH
- 400 - 300						5.28 + 0.10 $6.08 + 0.10$.7903 .8553		 	100 350	UNCH UNCH
- 250 TOTAL						6.50 + 0.10	.8782		 	300 2495	UNCH
AUG19											
-1000 - 600						1.86 + 0.04 $3.93 + 0.07$.4182 .6825		 	200 45	UNCH UNCH
- 500 - 450						4.62 + 0.09 4.98 + 0.09	.7352 .7738		 	1250 250	UNCH UNCH
- 400 - 300						5.36 + 0.09 6.15 + 0.09	.7874 .8541		 	100 350	UNCH UNCH
- 250 TOTAL						6.57 + 0.10	.8767		 	300 2495	UNCH
SEP19											
-1000 - 600						$ \begin{array}{rrrr} 1.97 + 0.05 \\ 4.01 + 0.06 \end{array} $.4213 .6750		 	200 45	UNCH UNCH
- 500 - 450						4.69 + 0.08 5.05 + 0.09	.7258 .7634		 	1250 250	UNCH UNCH
- 400 - 300						5.42 + 0.09 6.19 + 0.09	.7769 .8447		 	100 350	UNCH
- 250						6.61 + 0.10	.8663		 	300 2495	UNCH
TOTAL OCT19											
-1000 - 600						2.00 + 0.04 4.04 + 0.08	.4208 .6695		 	200 45	UNCH UNCH
- 500 - 450						4.70 + 0.08 5.05 + 0.08	.7203 .7591		 	1250 250	UNCH
- 400 - 300						5.42 + 0.09 6.19 + 0.10	.7715 .8390		 	100 350	UNCH
- 250						6.60 + 0.10	.8620		 	300 2495	UNCH
TOTAL NOV19										2133	
-1000 - 600						2.08 + 0.05 4.09 + 0.06	.4218 .6630		 	200 45	UNCH UNCH
- 500 - 450						4.75 + 0.08 5.10 + 0.08	.7123 .7493		 	1250 250	UNCH
- 400 - 300						5.46 + 0.09 6.22 + 0.10	.7618 .8286		 	100 350	UNCH
- 250						6.62 + 0.10	.8524		 	300 2495	UNCH
TOTAL DEC19										£ 1 33	
-1000			 /*2.05A	 /*2.05A		2.02 + 0.04 2.22 + 0.05	.4141 .4429		 	200 1500	UNCH
- 950 - 600			/ "2.03A 	/ "2.03A 		3.99 + 0.06	.6514 .7078		 	795	UNCH
- 500 - 450						4.96 + 0.05	.7472		 	1250 250	UNCH
- 400 - 300						5.31 + 0.05 6.05 + 0.04	.7600 .8074		 	100 400	UNCH
- 250 TOTAL						6.46 + 0.06	.8562		 	300 4795	UNCH
JAN20						6 26 . 0.00	8542		 	200	HNCH
- 250 TOTAL						6.26 + 0.08	.8542		 	200 200	UNCH
FEB20						6.28 + 0.08	.8957		 	200	UNCH
- 250 TOTAL						0.20 + 0.08	.0337		 	200	UNCH
						SER AND IS FURNISHED V			CY OR CO	NTENT. IT	IS
				RORS OR OMISSIONS		THE BASIS FOR ANY CLA					

TOTAL

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	GLOBEX OPEN	OPEN OUTCRY OPEN RANGE	GLOBEX HIGH/LOW	OPEN OUTCRY HIGH/LOW	OPEN OUTCRY CLOSE RANGE	SETT.PRICE & PT.CHGE.	DELTA	EXER CISES	OPEN OUTCRY VOLUME	GLOBEX® VOLUME \	PNT /OLUME	INTER	OPEN REST
BV PU	Т	WTI-BRENT SPRE	EAD OPTION										
MAR20 - 250 TOTAL						6.28 + 0.09	.8930					200 200	UNCH
APR20 - 250 TOTAL						6.27 + 0.08	.8902					200 200	UNCH
MAY20 - 250 TOTAL						6.26 + 0.09	.8875					200 200	UNCH
JUN20 - 250 TOTAL						6.24 + 0.08	.8847					200 200	UNCH
JUL20 - 250 TOTAL						6.25 + 0.08	.8823					200 200	UNCH
AUG20 - 250 TOTAL						6.22 + 0.08	.8771					200 200	UNCH
SEP20 - 250 TOTAL						6.21 + 0.09	.8723					200 200	UNCH
OCT20 - 250 TOTAL						6.15 + 0.08	.8692					200 200	UNCH
NOV20 - 250 TOTAL						6.11 + 0.09	.8619					200 200	UNCH
DEC20 - 250						6.01 + 0.10	.8520					200 200	UNCH

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PPODUCT		STRIKE DRICE		ONS EOO'S AND BLOCKS	
PRODUCT		STRIKE PRICE	EOO VOLUME	BLOCK VOLUME	
LO CALL AUG18 LO	CALL	7000 7200 7250 7300 7400 7500 7650 7700 8000 8050	OPTIONS (PHY) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000 150 100 1100 1000 1000 200 700 800 100 6150	
SEP18 L0	CALL	6950 7000 7200 7500 7600 7700 8000 8800 8900	0 0 0 0 0 0 0	300 1050 150 1600 1000 200 2000 350 1000 7650	
OCT18 LO LO LO TOTALS	CALL	6900 6950 7000	0 0 0 0	1150 750 475 2375	
LO LO LO TOTALS		7000 7200 8200	0 0 0 0	325 3000 3000 6325	
JAN19 LO TOTALS	CALL	7000	0	200 200	
MAR19 LO TOTALS	CALL	7000	0	100 100	
JUN19 LO	CALL	6550 6600 7000 7500 8000 8500 9000 9500	0 0 0 0 0 0 0	200 100 100 2000 150 800 100 1600 500	
SEP19 LO	CALL	6450 6750 7000 7400 7500 7700 8400 8500 9400	0 0 0 0 0 0 0	850 200 450 350 200 50 700 450 350 3600	
DEC19 LO LO LO LO TOTALS	CALL	6500 7000 7500 10500	0 0 0 0	400 200 550 100 1250	
DEC20 LO TOTALS	CALL	10000	0	150 150	
LO PUT AUG18 LO LO LO LO LO LO LO LO LO LO LO	PUT	NYMEX CRUDE OIL 0 6250 6700 6800 6900 7000 7100 7200 7250 7300	OPTIONS (PHY) 0 0 0 0 0 0 0 0 0 0 0 0 0 0	340 300 150 950 900 150 350 100 100	
SEP18 LO LO LO LO LO LO LO LO TOTALS	PUT	6000 6300 6450 6500 6550 6700 6900 7000	0 0 0 0 0 0 0	1000 200 200 500 500 500 200 250 3350	
OCT18 LO TOTALS	PUT	6900	0	300 300	
DEC18 LO LO LO LO LO TOTALS	PUT	4800 5000 5500 6000 6600	0 0 0 0 0	400 400 800 900 2000 4500	
JAN19 LO TOTALS	PUT	6500	0	200 200	

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				PREVIOUS DAY'S		OFFER
MAR LO TO	R19 TALS	PUT	6200		0	200 200
JUN LO LO LO TO		PUT	5000 5500 6000		0 0 0	150 600 100 850
SEF LO LO LO TO	v19 TALS	PUT	5000 5500 5800 6200		0 0 0 0	700 1350 300 600 2950
DEC LO LO LO TO	TALS	PUT	4000 4500 5000 6000		0 0 0 0	550 700 1150 450 2850
LO LO TO	C21	PUT	4500 5500		0 0 0	400 400 800
OH C SEF OH TO		CALL	NYMEX HEATI 23000	NG OIL (PHY) OPT	IONS 0 0	50 50
OH OH TO		CALL	22500 23000		0 0 0	100 90 190
OH F SEF OH OH TO	18	PUT	NYMEX HEATI 20000 21000	NG OIL (PHY) OPT:	O 0 0 0	500 50 550
DEC	18	PUT	21000		0 0	90 90
OB C AUG OB OB TO		CALL	NYMEX RBOB 21000 21500	(PHY) OPTIONS	0 0 0	200 25 225
SEF OB OB TO	718 TALS	CALL	20600 21400		0 0 0	100 200 300
	TALS	CALL	22600	IL 1MO CAL SPRD (0 0	100 100
WA C AUG WA TO	TALS	CALL	50	IL IMO CAL SPRO (0	2000 2000
NOV	TALS /18	CALL	75 100 75		0 0 0	1000 250 1250 1000
WA WA TO DEC WA	TALS	CALL	100		0	250 1250 900
WA WA TO	TALS		75 100	IL 1MO CAL SPRD (0 0 0	1000 250 2150
SEF WA WA WA	18	PUT	50 60 100	IL IMO CAL SPRO	0 0 0 0 0	1000 900 500 2400
LN C AUG LN LN LN TO	18	CALL	3000 3050 3250	AL GAS (EURO) OP	TS 0 0 0 0	1200 650 550 2400
	TALS	CALL	3250		0	100 100
OCT LN TO NOV	TALS	CALL	3000		0	150 150
LN TO	TALS	CALL	3150		0	36 36
LN LN TO	TALS	CALL	3400 3600		0 0 0	33 100 133
LN LN TO	TALS 319	CALL	3000 3200		0 0 0	150 75 225
LN TO MAR LN	TALS	CALL	3000 3000		0 0	150 150
LIN			3000		-	

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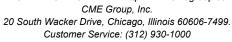
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THE	NOMI	NAL P	RICE	IS TH	E PREVIO	US DAY'S	SETTLEMENT	PRICE.	
LN TO	TALS			3750			0		100 250
APR LN TO	19 TALS	CALL		3000			0		150 150
MAY LN TOT	Ί9 ΓALS	CALL		3000			0		150 150
JUN LN TOT	119 ΓALS	CALL		3000			0		150 150
JUL LN TOT	.19 TALS	CALL		3000			0		150 150
AUG LN LN TOT	i19 TALS	CALL		2700 3000			0 0 0		100 150 250
SEP LN TOT	19 TALS	CALL		3000			0		150 150
OCT LN TOT		CALL		3000			0		150 150
NOV LN TOT	′19 ΓALS	CALL		3000			0		150 150
DEC LN TOT	:19 TALS	CALL		3000			0		150 150
APR LN TO	20 TALS	CALL		3250			0		50 50
MAY LN TOT	20 τals	CALL		3250			0		50 50
JUN LN TOT	i20 ΓALS	CALL		3250			0		50 50
JUL LN TOT	.20 TALS	CALL		3250			0		50 50
AUG LN TOT	i20 TALS	CALL		3250			0		50 50
SEP LN TO	20 TALS	CALL		3250			0		50 50
OCT LN TOT	720 TALS	CALL		3250			0		50 50
LN P AUG		PUT	NYME	X NATI	URAL GAS	(EURO) OP	TS 0		1200
LN LN LN				2800 2850 2900			0 0 0		650 150 500
	TALS	DUT		3000			0		900 3400
OCT LN LN LN TOT	TALS	PUT		2500 2750 3000			0 0 0 0		200 50 150 400
NOV LN TOT	18 TALS	PUT		2500			0		500 500
DEC LN LN	18	PUT		2000 2300			0		300 250
LN LN LN				2500 2650 2750 3000			0 0 0 0		500 500 150 250
	TALS 119	PUT		3000			Ö		1950
LN LN LN	TALS			2600 2950 3000			0 0 0 0		150 100 100 350
FEB LN TO	19 TALS	PUT		2600			0		150 150
MAR LN	19	PUT		1750			0		500
LN LN LN TOT	ΓALS			2000 2600 3000			0 0 0 0		500 150 100 1250
APR LN		PUT		2600			0		150 150
MAY LN		PUT		2600			0		150 150
JUN LN		PUT		2600			0		150 150
JUL LN		PUT		2600			0		150 150
AUG LN LN		PUT		2600 2700			0 0		150 100

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					SESSION AND NO PREVIOUS DAY'S		OFFER
	ΓALS	DUT				0	250
	ΓALS	PUT	26	00		0	150 150
OCT LN TOT	19 ΓALS	PUT	26	00		0	150 150
NOV LN TOT	19 ΓALS	PUT	26	00		0	150 150
DEC LN TOT	19 ΓALS	PUT	26	00		0	150 150
APR LN TOT		PUT	20	00		0	50 50
MAY LN TOT		PUT	20	00		0	50 50
JUN LN TOT	20 rals	PUT	20	00		0	50 50
JUL LN TO	20 TALS	PUT	20	00		0	50 50
AUG LN TO	20 ΓALS	PUT	20	00		0	50 50
SEP LN TOT	20 ΓALS	PUT	20	00		0	50 50
OCT LN		PUT	20	00		0	50 50
KD C	ALL	CALL	NYMEX O	NE D	AY NATURAL GAS O		
KD	ΓALS	0.22	30	00		0	150 150
KD P JUN KD TO1		PUT	NYMEX 0		AY NATURAL GAS O	PTIONS 0 0	300 300
CD C JUN CD TO1		CALL	NYMEX O		AY CRUDE OIL OPT	IONS 0 0	250 250
BE C SEP BE		CALL	81	00	STYLE OPTION	0	759
BE TOT DEC	ΓALS 18	CALL	84	00		0	2000 2759
BE TO	ΓALS		80	00		0	1748 1748
BE P DEC BE	18	PUT	BRENT E		STYLE OPTION	0	3000
MAR BE		PUT	70	00		0	3000 1000
BV C			WTI-BRE	NT S	PREAD OPTION	0	1000
AUG BV BV TOT	TALS	CALL	-50 -4			0 0 0	635 435 1070
SEP BV	18	CALL	-40	00		0	500 500
JAN BV	19	CALL	-50	00		0	500 500
BV P DEC		PUT			PREAD OPTION		
BV TOT	ΓALS		-10	00		0	1500 1500
AO C OCT AO TOT		CALL	CRUDE 0		PO OPTIONS	0	100 100
JAN AO AO TOT	19 ΓALS	CALL	69: 75:			0 0 0	2 130 132
FEB AO AO	19 ΓALS	CALL	69. 75			0 0 0	2 130 132
MAR AO AO	19	CALL	69: 75:			0	2 130
APR AO	TALS 19	CALL	69			0	132
MAY	TALS 19	CALL	75			0	130 132
AO AO			69: 75:			0	2 130

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NOT THE	NOMI	NAL PE	RICE IS	THE	PREVIO	ON AND NO	SETTLEMENT	OR BETTER PRICE.	OFFER
TOT	TALS	CALL					0		132
AO AO	TALS	CALL	692 750				0 0 0		2 130 132
JUL AO AO TOT	19 TALS	CALL	692 750				0 0 0		2 130 132
AUG AO AO	19 TALS	CALL	692 750				0 0 0		2 130 132
SEP AO AO		CALL	692 750				0 0 0		2 130 132
OCT A0 A0 T01	19 ΓALS	CALL	692 750				0 0 0		2 130 132
NOV AO AO TOT	19 TALS	CALL	692 750				0 0 0		2 130 132
DEC AO AO AO TOT	19 ΓALS	CALL	692 750 850	00			0 0 0 0		2 130 125 257
AO P		PUT	CRUDE O		PO OPT	IONS			
A0 A0 T0T	ΓALS		550 600				0 0 0		130 256 386
FEB AO AO TOT	19 TALS	PUT	550 600				0 0 0		130 244 374
MAR AO AO TOT	19	PUT	550 600				0 0 0		130 256 386
APR AO AO TOT	19 TALS	PUT	550 600				0 0 0		130 132 262
MAY AO AO TOT	19 TALS	PUT	550 600				0 0 0		130 132 262
JUN AO AO TOT	19 TALS	PUT	550 600				0 0 0		130 132 262
JUL AO AO AO	19 TALS	PUT	550 600 650	00			0 0 0 0		230 132 100 462
AUG AO AO AO		PUT	550 600 650	00			0 0 0 0		230 132 100 462
SEP AO AO AO TOT	19 TALS	PUT	550 600 650	00			0 0 0 0		230 132 100 462
OCT A0 A0 A0 T01	19 TALS	PUT	550 600 650	00			0 0 0 0		230 132 100 462
NOV AO AO AO TOT	19 TALS	PUT	550 600 650	00			0 0 0		230 132 100 462
AO AO AO AO TOT	19 ΓALS	PUT	420 550 600 650)0)0			0 0 0 0		125 230 132 100 587
AT C. JAN AT TOT	ALL 19 TALS	CALL	HEATING 2190		APO (A	AVG PRICE)	OPTIONS 0 0		50 50
FEB AT TOT	19 TALS	CALL	2190	00			0		50 50
	ΓALS	CALL	2190	00			0		50 50
	ΓALS	CALL	2190	00			0		50 50
	ΓALS	CALL	2190	00			0		50 50
JUN AT TOT	19 TALS	CALL	2190	00			0		50 50

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t.
200
200
200 500 700
200 500 700
200 500 700
200 500 700
700 500 700 1900
1500 1500
500 500
500 500
175 175
700 700
100 100
100 100
150 150
124 124
25 25
124 124
10 10
10 10
10 10
50 50

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CLA PUT JAN19 CLA CLA CLA TOTALS	PUT	COAL API2 A 5500 6500 7500	RGUS/MCCLOS CALNDR OPT 0 0 0 0 0	5 10 5 20			
LO2 PUT JUL18 LO2 TOTALS	PUT	CRUDE OIL O	PTIONS 0 0	100 100			
BZO CALL	CALL	BRENT CRUDE OIL FUT MARGIN OPT					
SEP18 BZO BZO TOTALS		8000 8400	0 0 0	500 1000 1500			
OCT18 BZO BZO BZO TOTALS	CALL	7700 7750 10000	0 0 0 0	100 150 175 425			
NOV18 BZO TOTALS	CALL	7700	0	150 150			
BZO PUT	PUT	BRENT CRUDE	OIL FUT MARGIN OPT				
SEP18 BZO BZO BZO TOTALS		7300 7500 7700	0 0 0 0	500 150 500 1150			
OCT18 BZO BZO TOTALS	PUT	7500 7750	0 0 0	150 150 300			
NOV18 BZO TOTALS	PUT	7700	0	150 150			