

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

CME Group, Inc.

20 South Wacker Drive, Chicago, Illinois 60606-7499.

Customer Service: (312) 930-1000

PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

THE CME GROUP DAILY BULLETIN ONLY DISPLAYS THOSE PRODUCTS/CONTRACT MONTHS THAT HAVE VOLUME AND/OR OPEN INTEREST. VOLUME INCLUDES GLOBEX (ELECTRONIC) 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 CLEARED 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.

CORE FUTURES PRODUCTS

CL FUT	NYMEX CRUDE OIL (PHYSICAL)	NYMEX HEATING OIL (PHYSICAL)	NYMEX NY HARBOR GAS (RBOB) (PHY)
	GLOBEX OPEN GLOBEX HIGH/LOW SETT. PRICE & PT. CHGE	GLOBEX OPEN GLOBEX HIGH/LOW SETT. PRICE & PT. CHGE	GLOBEX OPEN GLOBEX HIGH/LOW SETT. PRICE & PT. CHGE
DEC18	56.58	57.96 /55.89	56.46 UNCH
JAN19	56.78	58.16 /56.12	56.68 UNCH
FEB19	56.95	58.36 /56.35	56.88 - 0.02
MAR19	57.18	58.55 /56.57	57.07 - 0.03
APR19	57.33	58.70 /56.91	57.25 - 0.03
MAY19	57.64	58.87 /57.13	57.43 - 0.03
JUN19	57.65	59.01 /57.11	57.58 - 0.03
JUL19	57.81	59.09 /57.26	57.67 - 0.05
AUG19	58.56	59.10 /57.55A	57.76 - 0.05
SEP19	58.12	59.14B/57.59	57.84 - 0.06
OCT19	58.40	59.17 /57.48	57.90 - 0.06
NOV19	58.95	59.06 /57.84A	57.94 - 0.07
DEC19	58.13	59.26 /57.52	57.97 - 0.10
JAN20	58.86	59.18B/57.48	57.92 - 0.11
FEB20	----	58.59B	57.87 - 0.12
MAR20	58.73	59.06B/57.43A	57.84 - 0.12
APR20	----	58.87B/57.53A	57.79 - 0.15
MAY20	----	58.39B	57.75 - 0.16
JUN20	58.52	58.90 /57.39A	57.73 - 0.18
JUL20	----	58.29B/57.84A	57.67 - 0.18
AUG20	----	57.93B	57.62 - 0.19
SEP20	----	58.22B/57.71A	57.57 - 0.21
OCT20	----	58.21B/57.66A	57.54 - 0.22
NOV20	----	58.18B/57.61A	57.51 - 0.23
DEC20	57.75	58.64B/57.08	57.49 - 0.26
JAN21	----	57.86B/57.63A	57.40 - 0.29
FEB21	----	----	57.34 - 0.30
MAR21	----	----	57.28 - 0.32
APR21	----	----	57.23 - 0.33
MAY21	----	----	57.19 - 0.34
JUN21	57.73	58.19B/56.98	57.17 - 0.34
JUL21	----	----	57.11 - 0.34
AUG21	----	----	57.08 - 0.34
SEP21	----	----	57.05 - 0.34
OCT21	----	----	57.03 - 0.34
NOV21	----	----	57.02 - 0.33
DEC21	57.51	57.97B/56.58	57.03 - 0.33
JAN22	----	----	56.96 - 0.33
FEB22	----	----	56.90 - 0.33
MAR22	----	----	56.85 - 0.33
JUN22	----	----	56.76 - 0.33
DEC22	57.33	57.34B/56.60	56.66 - 0.31
DEC23	55.98	55.98 /55.98	56.21 - 0.30
JUN24	----	----	55.76 - 0.30
DEC24	----	----	55.61 - 0.29
DEC25	----	55.25B	54.88 - 0.29
DEC26	----	----	54.68 - 0.32
TOTAL CL FUT			1128896 29605 2015719 - 10792
HO FUT			
DEC18	2.0769	2.1081 /2.0585	2.0737 - 0.0004
JAN19	2.0699	2.1009 /2.0514	2.0669 - 0.0001
FEB19	2.0629	2.0916 /2.0421	2.0576 - 0.0005
MAR19	2.0559	2.0830 /2.0336A	2.0482 - 0.0014
APR19	2.0586	2.0661B/2.0201A	2.0333 - 0.0019
MAY19	2.0523	2.0614 /2.0174A	2.0274 - 0.0022
JUN19	2.0422	2.0600 /2.0128A	2.0256 - 0.0028
JUL19	2.0544	2.0650B/2.0215A	2.0312 - 0.0036
AUG19	2.0612	2.0734B/2.0311A	2.0391 - 0.0042
SEP19	2.0652	2.0839 /2.0418A	2.0490 - 0.0048
OCT19	2.0763	2.0893 /2.0500	2.0582 - 0.0055
NOV19	2.0854	2.0980 /2.0658	2.0665 - 0.0059
DEC19	2.0926	2.1082B/2.0625A	2.0734 - 0.0056
JAN20	2.0860	2.0902B/2.0860	2.0770 - 0.0054
FEB20	2.1050	2.1050 /2.0775	2.0743 - 0.0056
MAR20	2.0725	2.0819B/2.0725	2.0689 - 0.0066
APR20	2.0625	2.0693B/2.0500	2.0579 - 0.0082
MAY20	2.0625	2.0628B/2.0625	2.0529 - 0.0082
JUN20	2.0791	2.0837B/2.0450	2.0524 - 0.0082
JUL20	2.0861	2.0861 /2.0615	2.0545 - 0.0082
AUG20	2.0881	2.0881 /2.0630	2.0560 - 0.0084
SEP20	2.0881	2.0881 /2.0635	2.0559 - 0.0086
OCT20	2.0821	2.0821 /2.0620	2.0531 - 0.0088
NOV20	2.0831	2.0831 /2.0831	2.0534 - 0.0090
DEC20	2.0511	2.0726B/2.0500	2.0551 - 0.0092
JAN21	----	----	2.0571 - 0.0094
FEB21	----	----	2.0564 - 0.0098
MAR21	----	----	2.0504 - 0.0103
APR21	----	----	2.0406 - 0.0107
MAY21	----	----	2.0344 - 0.0112
JUN21	2.0410	2.0410 /2.0410	2.0312 - 0.0116
JUL21	----	----	2.0279 - 0.0121
AUG21	2.0450	2.0450 /2.0450	2.0255 - 0.0125
SEP21	2.0400	2.0400 /2.0400	2.0230 - 0.0130
OCT21	----	----	2.0177 - 0.0134
NOV21	----	----	2.0132 - 0.0139
DEC21	----	----	2.0196 - 0.0143
JAN22	----	----	2.0256 - 0.0143
TOTAL HO FUT			134572 6014 368024 - 4631
RB FUT			
DEC18	1.5555	1.6104 /1.5513	1.5770 + 0.0204
JAN19	1.5412	1.5994 /1.5412	1.5682 + 0.0218
FEB19	1.5451	1.6046 /1.5451	1.5744 + 0.0224
MAR19	1.5685	1.6253 /1.5685	1.5950 + 0.0230

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	NYMEX NY HARBOR GAS (RBOB) (PHY)	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
RB FUT					
APR19	1.7676 /1.8249	1.7938 + 0.0212	8310	----	25426 + 265
MAY19	1.8155 /1.8373B/1.7926A	1.8061 + 0.0199	5359	266	24870 + 505
JUN19	1.8077 /1.8414B/1.7874A	1.8073 + 0.0187	7498	350	21341 + 67
JUL19	1.8095 /1.8334B/1.7796A	1.8000 + 0.0178	1953	100	13032 - 70
AUG19	1.8019 /1.8194B/1.7740A	1.7853 + 0.0171	1750	616	6327 + 4
SEP19	1.7609 /1.7950 /1.7477A	1.7613 + 0.0162	1599	100	5838 - 64
OCT19	1.6619 /1.6753B/1.6296	1.6413 + 0.0158	1224	200	4214 + 209
NOV19	1.6360 /1.6396B/1.6152	1.6135 + 0.0137	1211	----	2078 + 142
DEC19	1.6110 /1.6341B/1.5869A	1.5938 + 0.0094	2831	300	7270 - 441
JAN20	1.6242 /1.6242 /1.5815	1.5868 + 0.0067	289	----	1291 + 188
FEB20	---- /1.6114B	1.5924 + 0.0053	6	----	85 + 2
MAR20	---- /1.6252B	1.6073 + 0.0050	----	----	42 UNCH
APR20	---- /1.8035B	1.7980 + 0.0061	----	----	25 UNCH
MAY20	---- /1.8054B	1.8088 + 0.0072	----	----	115 UNCH
JUN20	---- /1.7994B	1.8028 + 0.0070	----	----	35 UNCH
JUL20	---- /1.7874B	1.7909 + 0.0070	----	----	15 UNCH
AUG20	----	1.7708 + 0.0070	----	----	13 UNCH
SEP20	----	1.7506 + 0.0070	----	----	14 UNCH
OCT20	----	1.6311 + 0.0060	----	----	16 UNCH
NOV20	----	1.6077 + 0.0052	----	----	13 UNCH
DEC20	----	1.5888 + 0.0044	1	----	164 UNCH
JAN21	----	1.5874 + 0.0044	----	----	3 UNCH
MAY21	----	1.8009 + 0.0044	----	----	1 UNCH
TOTAL RB FUT			176448	7656	414624 - 1395

	NATURAL GAS HENRY HUB (PHYSICAL)	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
NG FUT					
DEC18	3.907 /3.4390 /3.907	4.272 + 0.234	269341	1376	117429 - 2109
JAN19	3.917 /3.4412 /3.917	4.291 + 0.248	169138	1385	262335 - 649
FEB19	3.800 /3.4278 /3.784A	4.148 + 0.251	52640	----	107005 - 1309
MAR19	3.515 /3.4007 /3.496	3.865 + 0.269	75123	2770	172622 + 4121
APR19	2.735 /2.829 /2.704	2.793 - 0.001	54882	2970	156467 - 3185
MAY19	2.632 /2.691 /2.602	2.667 + 0.015	34701	----	100496 + 1300
JUN19	2.638 /2.719 /2.634	2.692 + 0.014	12054	----	41910 + 582
JUL19	2.693 /2.750 /2.667A	2.724 + 0.015	10539	----	47322 + 497
AUG19	2.687 /2.743 /2.664	2.719 + 0.014	3563	----	41608 - 416
SEP19	2.653 /2.717 /2.652	2.693 + 0.014	4773	----	38085 - 244
OCT19	2.671 /2.736 /2.658A	2.711 + 0.014	17708	200	88130 + 2061
NOV19	2.732 /2.780 /2.708A	2.755 + 0.011	2986	----	38220 - 16
DEC19	2.890 /2.930 /2.863A	2.901 + 0.004	3125	----	39464 + 33
JAN20	2.980 /3.046 /2.980	3.015 - 0.002	4097	----	38238 - 428
FEB20	2.973 /2.978 /2.937A	2.956 - 0.003	615	----	11259 - 137
MAR20	2.817 /2.822 /2.787	2.798 - 0.006	3340	----	16468 UNCH
APR20	2.490 /2.522 /2.490	2.500 - 0.005	2365	----	20454 - 472
MAY20	2.469 /2.479 /2.461A	2.466 - 0.003	391	----	7903 + 50
JUN20	2.516 /2.529 /2.513A	2.515 - 0.003	1091	----	5333 + 698
JUL20	2.571 /2.581 /2.567A	2.565 - 0.004	921	----	4604 + 803
AUG20	2.581 /2.591 /2.578A	2.575 - 0.001	75	----	2941 + 27
SEP20	2.568 /2.577 /2.557A	2.561 + 0.002	125	----	2878 + 63
OCT20	2.585 /2.600 /2.574A	2.579 + 0.002	367	----	8554 - 9
NOV20	2.656 /2.658 /2.649A	2.644 + 0.003	29	----	3042 + 8
DEC20	2.803 /2.812 /2.801	2.807 + 0.009	21	----	3704 + 2
JAN21	2.910 /2.913 /2.883	2.907 - 0.001	71	----	1565 - 26
FEB21	2.868 /2.868 /2.868	2.862 - 0.001	11	----	817 + 9
MAR21	2.748 /2.748 /2.748	2.742 - 0.001	21	----	1732 - 2
APR21	2.506 /2.506 /2.506	2.497 - 0.004	19	----	1519 - 9
MAY21	2.474 /2.474 /2.450	2.465 - 0.004	9	----	660 + 9
JUN21	2.504 /2.504 /2.504	2.495 - 0.004	8	----	549 + 8
JUL21	2.537 /2.537 /2.537	2.528 - 0.004	8	----	509 + 8
AUG21	2.551 /2.551 /2.551	2.542 - 0.004	8	----	506 + 8
SEP21	2.544 /2.544 /2.544	2.535 - 0.004	8	----	542 + 8
OCT21	2.562 /2.562 /2.562	2.558 - 0.004	9	----	585 + 7
NOV21	2.633 /2.633 /2.633	2.622 - 0.006	8	----	605 + 8
DEC21	---- /2.772 /2.772	2.772 - 0.006	7	----	659 - 1
JAN22	2.903 /2.903 /2.903	2.882 - 0.011	1	----	333 + 1
FEB22	2.859 /2.859 /2.859	2.838 - 0.011	1	----	181 + 1
MAR22	---- /2.753 /2.753	2.753 - 0.013	----	----	177 UNCH
APR22	---- /2.514 /2.514	2.514 - 0.015	----	----	141 UNCH
MAY22	---- /2.485 /2.485	2.485 - 0.015	----	----	125 UNCH
JUN22	---- /2.513 /2.513	2.513 - 0.015	----	----	103 UNCH
JUL22	---- /2.544 /2.544	2.544 - 0.015	----	----	97 UNCH
AUG22	---- /2.559 /2.559	2.559 - 0.015	----	----	103 UNCH
SEP22	---- /2.553 /2.553	2.553 - 0.015	----	----	141 UNCH
OCT22	---- /2.576 /2.576	2.576 - 0.015	----	----	57 UNCH
NOV22	2.638 /2.638 /2.638	2.638 - 0.015	4	----	48 + 4
DEC22	---- /2.781 /2.781	2.781 - 0.015	----	----	61 UNCH
JAN23	---- /2.891 /2.891	2.891 - 0.015	----	----	45 UNCH
FEB23	---- /2.847 /2.847	2.847 - 0.015	----	----	31 UNCH
MAR23	---- /2.762 /2.762	2.762 - 0.020	----	----	28 UNCH
APR23	---- /2.530 /2.530	2.530 - 0.029	----	----	22 UNCH
MAY23	---- /2.515 /2.515	2.515 - 0.029	----	----	19 UNCH
JUN23	---- /2.545 /2.545	2.545 - 0.029	----	----	15 UNCH
JUL23	---- /2.579 /2.579	2.579 - 0.029	----	----	15 UNCH
AUG23	---- /2.599 /2.599	2.599 - 0.029	----	----	26 UNCH
SEP23	---- /2.605 /2.605	2.605 - 0.029	----	----	4 UNCH
OCT23	---- /2.635 /2.635	2.635 - 0.029	----	----	26 UNCH
NOV23	---- /2.702 /2.702	2.702 - 0.029	----	----	14 UNCH
DEC23	---- /2.850 /2.850	2.850 - 0.029	----	----	14 UNCH
JAN24	---- /2.960 /2.960	2.960 - 0.029	----	----	11 UNCH
FEB24	---- /2.923 /2.923	2.923 - 0.029	----	----	11 UNCH
MAR24	---- /2.853 /2.853	2.853 - 0.029	----	----	36 UNCH
APR24	---- /2.631 /2.631	2.631 - 0.029	----	----	25 UNCH
MAY24	---- /2.614 /2.614	2.614 - 0.029	----	----	16 UNCH
JUN24	---- /2.643 /2.643	2.643 - 0.029	----	----	11 UNCH
JUL24	---- /2.675 /2.675	2.675 - 0.029	----	----	11 UNCH
AUG24	---- /2.694 /2.694	2.694 - 0.029	----	----	11 UNCH
SEP24	---- /2.699 /2.699	2.699 - 0.029	----	----	13 UNCH
OCT24	---- /2.728 /2.728	2.728 - 0.029	----	----	11 UNCH
NOV24	---- /2.794 /2.794	2.794 - 0.029	----	----	11 UNCH
MAY25	---- /2.721 /2.721	2.721 - 0.029	----	----	1 UNCH
MAR26	---- /3.078 /3.078	3.078 - 0.029	----	----	25 UNCH
APR26	---- /2.853 /2.853	2.853 - 0.029	----	----	25 UNCH
MAR27	---- /3.165 /3.165	3.165 - 0.029	----	----	25 UNCH
APR27	---- /2.935 /2.935	2.935 - 0.029	----	----	25 UNCH
TOTAL NG FUT			724203	8701	1388813 + 1304

	NYMEX BRENT OIL LAST DAY FUTURES	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
BZ FUT					
JAN19	66.75 /68.38 /66.10	66.76 + 0.14	37065	74	27562 + 621

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
BZ FUT NYMEX BRENT OIL LAST DAY FUTURES						
FEB19	66.93	68.56 /66.37	67.03 + 0.14	18111	----	24232 + 1022
MAR19	67.08	68.64 /66.53	67.21 + 0.15	9780	----	19224 + 197
APR19	68.58	68.62 /67.24A	67.34 + 0.14	4404	----	9764 + 125
MAY19	----	----	67.46 + 0.13	3557	----	8983 UNCH
JUN19	67.81	68.81B/66.93	67.52 + 0.11	9707	2512	25443 + 1046
JUL19	68.43	68.43 /67.51	67.49 + 0.10	2011	----	5048 + 119
AUG19	68.32	68.32 /68.32	67.38 + 0.07	1558	----	5307 + 106
SEP19	68.26	68.29 /68.26	67.23 + 0.04	2048	----	8202 + 88
OCT19	68.13	68.14 /67.14	67.09 + 0.03	1254	----	3563 - 13
NOV19	67.95	68.02 /67.95	66.95 + 0.01	996	----	6200 + 36
DEC19	67.45	67.91 /66.66	66.79 UNCH	8693	1500	28680 + 445
JAN20	----	----	66.68 - 0.01	136	100	2820 + 95
FEB20	----	----	66.56 - 0.02	51	100	2151 + 88
MAR20	----	----	66.46 - 0.02	30	----	1451 + 2
APR20	----	----	66.36 - 0.04	----	----	1103 UNCH
MAY20	----	----	66.26 - 0.05	----	----	323 UNCH
JUN20	66.69	66.87 /66.69	66.15 - 0.06	1521	----	7526 + 65
JUL20	----	----	66.02 - 0.06	----	----	357 UNCH
AUG20	----	----	65.90 - 0.08	----	----	299 UNCH
SEP20	----	----	65.80 - 0.09	----	----	376 UNCH
OCT20	----	----	65.70 - 0.10	----	----	394 UNCH
NOV20	----	----	65.60 - 0.12	----	----	299 UNCH
DEC20	66.27	66.40 /65.20	65.51 - 0.13	1793	9530	19527 + 309
JAN21	----	----	65.40 - 0.14	----	----	100 UNCH
JUN21	----	----	65.06 - 0.19	----	----	22 UNCH
DEC21	----	----	64.62 - 0.25	511	----	7527 + 195
DEC22	----	----	64.19 - 0.22	----	----	18 UNCH
DEC23	64.00	64.00 /63.75	63.96 - 0.02	6	----	6 + 6
TOTAL BZ FUT				103232	13816	216507 + 4552
7F FUT EUROPEAN GASOIL ICE FUTURE						
DEC18	----	----	633.25 - 4.50	----	----	95 UNCH
JAN19	----	----	627.00 - 4.00	----	----	26 UNCH
FEB19	----	----	625.25 - 3.75	4	----	65 - 4
MAR19	----	----	624.50 - 3.75	4	----	35 - 4
APR19	----	----	623.00 - 3.75	----	----	21 UNCH
MAY19	----	----	622.75 - 3.50	----	----	10 UNCH
TOTAL 7F FUT				8		252 - 8
QM FUT E-MINI CRUDE OIL FUTURES						
DEC18	56.600	57.950 /55.900	56.460 UNCH	1883	----	1864 - 56
JAN19	56.800	58.175 /56.125	56.680 UNCH	23898	----	2824 + 1233
FEB19	56.950	58.275 /56.450	56.880 - 0.020	98	----	149 - 1
MAR19	57.225	58.475 /56.650A	57.070 - 0.030	24	----	74 + 3
APR19	57.100	58.300B/57.100	57.250 - 0.030	3	----	112 UNCH
MAY19	----	----	57.430 - 0.030	----	----	117 UNCH
JUN19	57.800	57.800 /57.500	57.580 - 0.030	43	----	117 - 41
JUL19	----	----	57.670 - 0.050	----	----	19 UNCH
AUG19	----	----	57.760 - 0.050	----	----	48 UNCH
SEP19	58.300	58.300 /58.300	57.840 - 0.060	1	----	52 + 1
OCT19	59.000	59.000 /57.900	57.900 - 0.060	4	----	11 UNCH
NOV19	----	----	57.940 - 0.070	----	----	8 UNCH
DEC19	59.050	59.050 /58.750	57.970 - 0.100	3	----	49 - 2
JUN20	----	----	57.730 - 0.180	----	----	1 UNCH
JUL20	----	----	57.670 - 0.180	----	----	1 UNCH
DEC20	----	----	57.490 - 0.260	----	----	10 UNCH
JUL21	----	----	57.110 - 0.340	----	----	1 UNCH
DEC21	----	----	57.030 - 0.330	----	----	7 UNCH
DEC22	----	----	56.660 - 0.310	----	----	1 UNCH
TOTAL QM FUT				25957		5465 + 1137
QH FUT E-MINI HEATING OIL FUTURES						
DEC18	2.0740	2.0740 /2.0740	2.0737 - 0.0004	2	----	0 - 2
TOTAL QH FUT				2		0 - 2
QU FUT E-MINI GASOLINE FUTURES						
DEC18	1.5770	1.5770 /1.5770	1.5770 + 0.0204	1	----	0 - 1
TOTAL QU FUT				1		0 - 1
QG FUT E-MINI NATURAL GAS						
DEC18	3.915	4.470 /3.915	4.272 + 0.234	8425	----	3039 + 899
JAN19	3.935	4.445 /3.930	4.291 + 0.248	894	----	547 + 114
FEB19	3.800	4.260 /3.785A	4.148 + 0.251	183	----	359 + 44
MAR19	----	3.990 /3.515A	3.865 + 0.269	102	----	123 + 30
APR19	2.840	2.840 /2.695	2.793 - 0.001	32	----	99 + 10
MAY19	----	----	2.667 + 0.015	1	----	10 UNCH
JUN19	----	----	2.692 + 0.014	3	----	8 - 3
JUL19	2.730	2.730 /2.730	2.724 + 0.015	6	----	7 - 3
AUG19	2.710	2.735 /2.710	2.719 + 0.014	2	----	6 UNCH
SEP19	2.670	2.690 /2.670	2.693 + 0.014	2	----	5 UNCH
OCT19	----	----	2.711 + 0.014	----	----	8 UNCH
NOV19	----	----	2.755 + 0.011	----	----	5 UNCH
DEC19	----	----	2.901 + 0.004	----	----	6 UNCH
JAN20	----	----	3.015 - 0.002	----	----	4 UNCH
FEB20	----	----	2.956 - 0.003	----	----	2 UNCH
MAR20	----	----	2.798 - 0.006	----	----	2 UNCH
APR20	----	----	2.500 - 0.005	----	----	1 UNCH
MAY20	----	----	2.466 - 0.003	----	----	2 UNCH
JUN20	----	----	2.515 - 0.003	----	----	1 UNCH
JUL20	----	----	2.565 - 0.004	----	----	1 UNCH
AUG20	----	----	2.575 - 0.001	----	----	1 UNCH
SEP20	----	----	2.561 + 0.002	----	----	1 UNCH
OCT20	----	----	2.579 + 0.002	----	----	2 UNCH
NOV20	----	----	2.644 + 0.003	----	----	1 UNCH
DEC20	----	----	2.807 + 0.009	----	----	1 UNCH
OCT21	----	----	2.558 - 0.004	----	----	1 UNCH
TOTAL QG FUT				9650		4242 + 1091

CRUDE OIL FUTURES PRODUCTS



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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

		GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST				
E5 FUT	ARGUS LLS VS. WTI (ARG) TRD M											
DEC18		----	----	8.16	+	0.01	----	7461	UNCH			
JAN19		----	----	7.45	+	0.07	----	4339	+	145		
FEB19		----	----	7.23	+	0.23	----	2950	+	25		
MAR19		----	----	7.00	+	0.37	----	2906	+	25		
APR19		----	----	6.80	+	0.30	----	2669	+	10		
MAY19		----	----	6.55	+	0.17	----	2706	+	10		
JUN19		----	----	6.30	+	0.05	----	2704	+	10		
JUL19		----	----	5.88	-	0.05	----	2586		UNCH		
AUG19		----	----	5.65	-	0.08	----	2686		UNCH		
SEP19		----	----	5.43	-	0.10	----	2684		UNCH		
OCT19		----	----	5.23	-	0.10	----	2801		UNCH		
NOV19		----	----	5.01	-	0.13	----	2799		UNCH		
DEC19		----	----	4.91	-	0.08	----	2801		UNCH		
JAN20		----	----	4.20		UNCH	----	342		UNCH		
FEB20		----	----	4.20		UNCH	----	292		UNCH		
MAR20		----	----	4.20		UNCH	----	292		UNCH		
APR20		----	----	4.20		UNCH	----	292		UNCH		
MAY20		----	----	4.20		UNCH	----	292		UNCH		
JUN20		----	----	4.20		UNCH	----	292		UNCH		
JUL20		----	----	4.20		UNCH	----	291		UNCH		
AUG20		----	----	4.20		UNCH	----	291		UNCH		
SEP20		----	----	4.20		UNCH	----	291		UNCH		
OCT20		----	----	4.20		UNCH	----	291		UNCH		
NOV20		----	----	4.20		UNCH	----	291		UNCH		
DEC20		----	----	4.20		UNCH	----	291		UNCH		
JAN21		----	----	3.43	+	0.03	----	40		UNCH		
FEB21		----	----	3.43	+	0.03	----	40		UNCH		
MAR21		----	----	3.43	+	0.03	----	40		UNCH		
APR21		----	----	3.43	+	0.03	----	40		UNCH		
MAY21		----	----	3.43	+	0.03	----	40		UNCH		
JUN21		----	----	3.43	+	0.03	----	40		UNCH		
JUL21		----	----	3.43	+	0.03	----	40		UNCH		
AUG21		----	----	3.43	+	0.03	----	40		UNCH		
SEP21		----	----	3.43	+	0.03	----	40		UNCH		
OCT21		----	----	3.43	+	0.03	----	40		UNCH		
NOV21		----	----	3.43	+	0.03	----	40		UNCH		
DEC21		----	----	3.43	+	0.03	----	40		UNCH		
TOTAL	E5 FUT						610	46120	+	225		
38 FUT	ARGUS SOUR CRUDE NDX VS WTI DIF CAL											
NOV18		----	----	4.38	+	0.02	----	205		UNCH		
DEC18		----	----	0.56		UNCH	----	205		UNCH		
TOTAL	38 FUT							410				
CY FUT	BRENT CALENDAR											
NOV18		----	----	68.49	+	0.07	----	722		UNCH		
DEC18		----	----	67.05	+	0.14	----	1457		UNCH		
JAN19		----	----	67.22	+	0.15	----	1234		UNCH		
FEB19		----	----	67.35	+	0.14	----	1393		UNCH		
MAR19		----	----	67.46	+	0.13	----	1044		UNCH		
APR19		----	----	67.52	+	0.11	----	5		1154	+	5
MAY19		----	----	67.49	+	0.10	----	5		1153	+	5
JUN19		----	----	67.37	+	0.07	----	5		1153	+	5
JUL19		----	----	67.22	+	0.04	----			636		UNCH
AUG19		----	----	67.08	+	0.03	----			636		UNCH
SEP19		----	----	66.94	+	0.01	----			635		UNCH
OCT19		----	----	66.79		UNCH	----			542		UNCH
NOV19		----	----	66.67	-	0.01	----			541		UNCH
DEC19		----	----	66.55	-	0.02	----			641		UNCH
JAN20		----	----	66.46	-	0.02	----			422		UNCH
FEB20		----	----	66.36	-	0.04	----			422		UNCH
MAR20		----	----	66.26	-	0.05	----			422		UNCH
APR20		----	----	66.14	-	0.06	----			424		UNCH
MAY20		----	----	66.01	-	0.07	----			424		UNCH
JUN20		----	----	65.90	-	0.08	----			424		UNCH
JUL20		----	----	65.80	-	0.09	----			422		UNCH
AUG20		----	----	65.69	-	0.10	----			422		UNCH
SEP20		----	----	65.60	-	0.12	----			422		UNCH
OCT20		----	----	65.51	-	0.13	----			507		UNCH
NOV20		----	----	65.40	-	0.14	----			422		UNCH
DEC20		----	----	65.32	-	0.15	----			422		UNCH
JAN21		----	----	65.26	-	0.16	----			247		UNCH
FEB21		----	----	65.19	-	0.17	----			247		UNCH
MAR21		----	----	65.12	-	0.18	----			246		UNCH
APR21		----	----	65.06	-	0.19	----			246		UNCH
MAY21		----	----	64.99	-	0.22	----			246		UNCH
JUN21		----	----	64.93	-	0.23	----			246		UNCH
JUL21		----	----	64.86	-	0.24	----			246		UNCH
AUG21		----	----	64.79	-	0.24	----			246		UNCH
SEP21		----	----	64.71	-	0.25	----			246		UNCH
OCT21		----	----	64.62	-	0.25	----			246		UNCH
NOV21		----	----	64.59	-	0.25	----			245		UNCH
DEC21		----	----	64.55	-	0.25	----			245		UNCH
JAN22		----	----	64.51	-	0.25	----			8		UNCH
FEB22		----	----	64.47	-	0.25	----			8		UNCH
MAR22		----	----	64.43	-	0.25	----			8		UNCH
APR22		----	----	64.39	-	0.25	----			8		UNCH
MAY22		----	----	64.35	-	0.26	----			8		UNCH
JUN22		----	----	64.32	-	0.25	----			8		UNCH
JUL22		----	----	64.29	-	0.24	----			8		UNCH
AUG22		----	----	64.26	-	0.23	----			8		UNCH
SEP22		----	----	64.23	-	0.22	----			8		UNCH
OCT22		----	----	64.19	-	0.22	----			8		UNCH
NOV22		----	----	64.19	-	0.20	----			7		UNCH
DEC22		----	----	64.18	-	0.18	----			7		UNCH
JAN23		----	----	64.16	-	0.17	----			3		UNCH
FEB23		----	----	64.14	-	0.15	----			3		UNCH
MAR23		----	----	64.12	-	0.13	----			3		UNCH
APR23		----	----	64.10	-	0.11	----			3		UNCH
MAY23		----	----	64.08	-	0.10	----			3		UNCH
JUN23		----	----	64.05	-	0.09	----			3		UNCH
JUL23		----	----	64.02	-	0.08	----			3		UNCH
AUG23		----	----	64.00	-	0.06	----			3		UNCH
SEP23		----	----	63.98	-	0.04	----			3		UNCH
OCT23		----	----	63.96	-	0.02	----			3		UNCH
TOTAL	CY FUT							15		21172	+	15
CC5 FUT	CANADIAN C5+ CONDENSATE INDEX FUT											

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
DEC18	----	----	-17.494	UNCH	----	----	30	UNCH
JAN19	----	----	-13.500	UNCH	----	----	90	UNCH
FEB19	----	----	-13.000	UNCH	----	----	60	UNCH
MAR19	----	----	-12.500	UNCH	----	----	60	UNCH
TOTAL CC5 FUT							240	
WCC FUT	CANADIAN HEAVY CRUDE(NET ENRGY) FUT							
DEC18	----	----	-42.794	UNCH	----	----	160	UNCH
TOTAL WCC FUT							160	
CIL FUT	CANADIAN LIGHT SWEET OIL							
DEC18	----	----	-34.921	UNCH	----	----	7	UNCH
TOTAL CIL FUT							7	
CSW FUT	CLEARBROOK BAKKEN CRUDE OIL INDEX							
JAN19	----	----	-10.000	UNCH	----	----	190	UNCH
FEB19	----	----	-8.500	UNCH	----	----	190	UNCH
MAR19	----	----	-7.450	UNCH	----	----	190	UNCH
APR19	----	----	-6.650	UNCH	----	----	190	UNCH
MAY19	----	----	-6.650	UNCH	----	----	190	UNCH
JUN19	----	----	-6.650	UNCH	----	----	190	UNCH
JUL19	----	----	-5.150	UNCH	----	----	190	UNCH
AUG19	----	----	-5.150	UNCH	----	----	190	UNCH
SEP19	----	----	-5.150	UNCH	----	----	190	UNCH
OCT19	----	----	-5.450	UNCH	----	----	190	UNCH
NOV19	----	----	-5.450	UNCH	----	----	190	UNCH
DEC19	----	----	-5.450	UNCH	----	----	190	UNCH
TOTAL CSW FUT							2280	
FY FUT	DATED TO FRONTLINE BRENT CLNDR							
NOV18	----	----	-1.11 -	0.06	----	----	150	UNCH
DEC18	----	----	-0.77 +	0.01	----	----	425	UNCH
JAN19	----	----	-0.66 +	0.04	----	----	420	UNCH
FEB19	----	----	-0.58 +	0.06	----	----	345	UNCH
MAR19	----	----	-0.52 +	0.06	----	----	345	UNCH
APR19	----	----	-0.51 +	0.08	----	----	295	UNCH
MAY19	----	----	-0.45 +	0.02	----	----	295	UNCH
JUN19	----	----	-0.45 +	0.02	----	----	295	UNCH
JUL19	----	----	-0.32 +	0.03	----	----	50	UNCH
AUG19	----	----	-0.32 +	0.03	----	----	50	UNCH
SEP19	----	----	-0.32 +	0.03	----	----	50	UNCH
OCT19	----	----	-0.55 +	0.04	----	----	50	UNCH
NOV19	----	----	-0.55 +	0.04	----	----	50	UNCH
DEC19	----	----	-0.55 +	0.04	----	----	145	UNCH
JAN20	----	----	-0.73 +	0.03	----	----	50	UNCH
FEB20	----	----	-0.73 +	0.03	----	----	50	UNCH
MAR20	----	----	-0.73 +	0.03	----	----	50	UNCH
APR20	----	----	-0.75 +	0.01	----	----	50	UNCH
MAY20	----	----	-0.75 +	0.01	----	----	50	UNCH
JUN20	----	----	-0.75 +	0.01	----	----	50	UNCH
JUL20	----	----	-0.75 +	0.01	----	----	50	UNCH
AUG20	----	----	-0.75 +	0.01	----	----	50	UNCH
SEP20	----	----	-0.75 +	0.01	----	----	50	UNCH
OCT20	----	----	-0.75 +	0.01	----	----	50	UNCH
NOV20	----	----	-0.75 +	0.01	----	----	50	UNCH
DEC20	----	----	-0.75 +	0.01	----	----	50	UNCH
TOTAL FY FUT							3565	
DC FUT	DUBAI CRUDE OIL CALENDAR							
NOV18	----	----	67.603 +	0.054	----	----	6394	UNCH
DEC18	----	----	65.471 +	0.074	----	----	18764	UNCH
JAN19	----	----	65.330 -	0.018	----	----	2524	UNCH
FEB19	----	----	65.351 -	0.048	----	----	1611	UNCH
MAR19	----	----	65.360 -	0.099	----	5000	8673 +	500
APR19	----	----	65.320 -	0.158	----	----	502	UNCH
JUN19	----	----	65.199 -	0.200	----	----	360	UNCH
TOTAL DC FUT						5000	38828 +	500
UB FUT	EUROPE DATED BRENT							
NOV18	----	----	67.38 +	0.01	----	----	800	UNCH
DEC18	----	----	66.28 +	0.15	----	----	1400	UNCH
JAN19	----	----	66.56 +	0.19	----	----	2100	UNCH
TOTAL UB FUT							4300	
DB FUT	ICE BRENT DUBAI							
NOV18	----	----	0.892 +	0.016	----	----	3984	UNCH
DEC18	----	----	1.577 +	0.067	----	----	4524	UNCH
JAN19	----	----	1.886 +	0.168	----	----	1151	UNCH
FEB19	----	----	1.995 +	0.187	----	----	1211	UNCH
MAR19	----	----	2.103 +	0.228	----	----	1296	UNCH
APR19	----	----	2.199 +	0.268	----	----	846	UNCH
MAY19	----	----	2.215 +	0.317	----	----	696	UNCH
JUN19	----	----	2.174 +	0.269	----	----	621	UNCH
JUL19	----	----	2.253 +	0.259	----	----	570	UNCH
AUG19	----	----	2.384 +	0.239	----	----	570	UNCH
SEP19	----	----	2.572 +	0.248	----	----	570	UNCH
OCT19	----	----	2.864 +	0.227	----	----	730	UNCH
NOV19	----	----	3.104 +	0.197	----	----	730	UNCH
DEC19	----	----	3.175 +	0.178	----	----	730	UNCH
JAN20	----	----	3.175 +	0.168	----	----	1972	UNCH
FEB20	----	----	3.166 +	0.148	----	----	1972	UNCH
MAR20	----	----	3.165 +	0.148	----	----	1972	UNCH
APR20	----	----	3.154 +	0.148	----	----	2817	UNCH
MAY20	----	----	3.115 +	0.138	----	----	2817	UNCH
JUN20	----	----	3.105 +	0.127	----	----	2817	UNCH
JUL20	----	----	3.106 +	0.118	----	----	1187	UNCH
AUG20	----	----	3.106 +	0.108	----	----	1187	UNCH
SEP20	----	----	3.116 +	0.108	----	----	1187	UNCH
OCT20	----	----	3.105 +	0.088	----	----	1187	UNCH
NOV20	----	----	3.077 +	0.089	----	----	1187	UNCH
DEC20	----	----	3.088 +	0.098	----	----	1187	UNCH
TOTAL DB FUT							39718	
LSW FUT	LIGHT SWEET OIL NET ENERGY MONTHLY							
DEC18	----	----	-34.639	UNCH	----	----	175	UNCH
TOTAL LSW FUT							175	
XA FUT	LLS (ARGUS) CALENDAR							

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
XA FUT	LLS (ARGUS) CALENDAR							
NOV18	----	----	66.62 - 0.02		----	----	21	UNCH
DEC18	----	----	64.16 + 0.10		----	----	21	UNCH
JAN19	----	----	64.13 + 0.23		----	----	21	UNCH
FEB19	----	----	64.10 + 0.33		----	----	20	UNCH
MAR19	----	----	64.06 + 0.24		----	----	20	UNCH
APR19	----	----	63.98 + 0.12		----	----	20	UNCH
MAY19	----	----	63.83 - 0.01		----	----	20	UNCH
JUN19	----	----	63.55 - 0.10		----	----	20	UNCH
JUL19	----	----	63.40 - 0.13		----	----	19	UNCH
AUG19	----	----	63.24 - 0.16		----	----	19	UNCH
SEP19	----	----	63.11 - 0.17		----	----	19	UNCH
OCT19	----	----	62.94 - 0.20		----	----	19	UNCH
NOV19	----	----	62.76 - 0.17		----	----	19	UNCH
DEC19	----	----	62.10 - 0.12		----	----	18	UNCH
JAN20	----	----	62.06 - 0.12		----	----	18	UNCH
FEB20	----	----	62.02 - 0.13		----	----	18	UNCH
MAR20	----	----	61.98 - 0.15		----	----	18	UNCH
APR20	----	----	61.94 - 0.17		----	----	18	UNCH
MAY20	----	----	61.91 - 0.18		----	----	18	UNCH
JUN20	----	----	61.86 - 0.18		----	----	17	UNCH
JUL20	----	----	61.80 - 0.20		----	----	17	UNCH
AUG20	----	----	61.76 - 0.21		----	----	17	UNCH
SEP20	----	----	61.73 - 0.22		----	----	11	UNCH
OCT20	----	----	61.70 - 0.24		----	----	11	UNCH
NOV20	----	----	61.59 - 0.27		----	----	11	UNCH
DEC20	----	----	60.81 - 0.26		----	----	11	UNCH
JAN21	----	----	60.75 - 0.28		----	----	11	UNCH
FEB21	----	----	60.70 - 0.29		----	----	10	UNCH
MAR21	----	----	60.65 - 0.30		----	----	10	UNCH
APR21	----	----	60.61 - 0.31		----	----	10	UNCH
MAY21	----	----	60.58 - 0.31		----	----	10	UNCH
JUN21	----	----	60.53 - 0.31		----	----	10	UNCH
JUL21	----	----	60.50 - 0.31		----	----	10	UNCH
AUG21	----	----	60.47 - 0.31		----	----	10	UNCH
TOTAL XA FUT							542	
WJ FUT	LLS (ARGUS) VS WTI							
NOV18	----	----	7.99 - 0.02		----	----	1806	UNCH
DEC18	----	----	7.41 + 0.11		----	----	2190	UNCH
JAN19	----	----	7.19 + 0.26		----	----	2039	UNCH
FEB19	----	----	6.97 + 0.36		----	----	2034	UNCH
MAR19	----	----	6.75 + 0.27		----	----	2040	UNCH
APR19	----	----	6.51 + 0.15		----	15	2106 -	15
MAY19	----	----	6.22 + 0.03		----	15	2108 -	15
JUN19	----	----	5.85 - 0.05		----	15	2106 -	15
JUL19	----	----	5.61 - 0.08		----	115	2070 -	15
AUG19	----	----	5.38 - 0.10		----	115	2070 -	15
SEP19	----	----	5.20 - 0.10		----	115	2068 -	15
OCT19	----	----	4.99 - 0.12		----	----	2085	UNCH
NOV19	----	----	4.80 - 0.07		----	----	2083	UNCH
DEC19	----	----	4.20 UNCH		----	----	2086	UNCH
JAN20	----	----	4.20 UNCH		----	----	260	UNCH
FEB20	----	----	4.20 UNCH		----	----	260	UNCH
MAR20	----	----	4.20 UNCH		----	----	260	UNCH
APR20	----	----	4.20 UNCH		----	----	260	UNCH
MAY20	----	----	4.20 UNCH		----	----	260	UNCH
JUN20	----	----	4.20 UNCH		----	----	260	UNCH
JUL20	----	----	4.20 UNCH		----	----	195	UNCH
AUG20	----	----	4.20 UNCH		----	----	195	UNCH
SEP20	----	----	4.20 UNCH		----	----	195	UNCH
OCT20	----	----	4.20 UNCH		----	----	195	UNCH
NOV20	----	----	4.12 UNCH		----	----	195	UNCH
DEC20	----	----	3.43 + 0.03		----	----	195	UNCH
JAN21	----	----	3.43 + 0.03		----	----	58	UNCH
FEB21	----	----	3.43 + 0.03		----	----	55	UNCH
MAR21	----	----	3.43 + 0.03		----	----	58	UNCH
APR21	----	----	3.43 + 0.03		----	----	57	UNCH
MAY21	----	----	3.43 + 0.03		----	----	58	UNCH
JUN21	----	----	3.43 + 0.03		----	----	57	UNCH
JUL21	----	----	3.43 + 0.03		----	----	41	UNCH
AUG21	----	----	3.43 + 0.03		----	----	41	UNCH
SEP21	----	----	3.43 + 0.03		----	----	40	UNCH
OCT21	----	----	3.43 + 0.03		----	----	41	UNCH
NOV21	----	----	3.43 + 0.03		----	----	40	UNCH
DEC21	----	----	3.43 + 0.03		----	----	41	UNCH
JAN22	----	----	3.43 + 0.03		----	----	10	UNCH
FEB22	----	----	3.43 + 0.03		----	----	10	UNCH
MAR22	----	----	3.43 + 0.03		----	----	10	UNCH
APR22	----	----	3.43 + 0.03		----	----	10	UNCH
MAY22	----	----	3.43 + 0.03		----	----	10	UNCH
JUN22	----	----	3.43 + 0.03		----	----	10	UNCH
JUL22	----	----	3.43 + 0.03		----	----	10	UNCH
AUG22	----	----	3.43 + 0.03		----	----	10	UNCH
SEP22	----	----	3.43 + 0.03		----	----	10	UNCH
OCT22	----	----	3.43 + 0.03		----	----	10	UNCH
NOV22	----	----	3.43 + 0.03		----	----	10	UNCH
DEC22	----	----	3.43 + 0.03		----	----	10	UNCH
JAN23	----	----	3.43 + 0.03		----	----	12	UNCH
FEB23	----	----	3.43 + 0.03		----	----	12	UNCH
MAR23	----	----	3.43 + 0.03		----	----	12	UNCH
APR23	----	----	3.43 + 0.03		----	----	12	UNCH
MAY23	----	----	3.43 + 0.03		----	----	12	UNCH
JUN23	----	----	3.43 + 0.03		----	----	12	UNCH
JUL23	----	----	3.43 + 0.03		----	----	12	UNCH
AUG23	----	----	3.43 + 0.03		----	----	12	UNCH
SEP23	----	----	3.43 + 0.03		----	----	12	UNCH
OCT23	----	----	3.43 + 0.03		----	----	12	UNCH
NOV23	----	----	3.43 + 0.03		----	----	12	UNCH
DEC23	----	----	3.43 + 0.03		----	----	12	UNCH
TOTAL WJ FUT						390	32472 -	90
LPS FUT	LOOP CRUDE OIL STORAGE FUTURES							
DEC18	----	----	0.030 UNCH		----	----	3350	UNCH
JAN19	----	----	0.050 UNCH		----	----	3160	UNCH
FEB19	----	----	0.050 UNCH		----	----	3160	UNCH
MAR19	----	----	0.050 UNCH		----	----	3160	UNCH
APR19	----	----	0.059 UNCH		----	----	3100	UNCH



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ENERGY FUTURES PRODUCTS

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Table with columns: GLOBEX OPEN, GLOBEX HIGH/LOW, SETT. PRICE & PT. CHGE, GLOBEX VOLUME, PNT/PIT VOLUME, OPEN INTEREST. Rows include LPS FUT, YX FUT, YV FUT, BB FUT, CS FUT.

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
CS FUT	WEST TEXAS INTER CRUDE OIL CAL							
OCT21	----	----	57.02 - 0.33		----	----	563	UNCH
NOV21	----	----	57.01 - 0.33		----	----	562	UNCH
DEC21	----	----	56.94 - 0.33		----	----	562	UNCH
JAN22	----	----	56.88 - 0.33		----	----	97	UNCH
FEB22	----	----	56.84 - 0.33		----	----	100	UNCH
MAR22	----	----	56.80 - 0.33		----	----	97	UNCH
APR22	----	----	56.77 - 0.33		----	----	98	UNCH
MAY22	----	----	56.75 - 0.33		----	----	96	UNCH
JUN22	----	----	56.71 - 0.33		----	----	97	UNCH
JUL22	----	----	56.68 - 0.32		----	----	96	UNCH
AUG22	----	----	56.67 - 0.32		----	----	96	UNCH
SEP22	----	----	56.66 - 0.32		----	----	97	UNCH
OCT22	----	----	56.66 - 0.31		----	----	96	UNCH
NOV22	----	----	56.64 - 0.31		----	----	97	UNCH
DEC22	----	----	56.57 - 0.30		----	----	96	UNCH
JAN23	----	----	56.50 - 0.31		----	----	76	UNCH
FEB23	----	----	56.46 - 0.30		----	----	76	UNCH
MAR23	----	----	56.42 - 0.29		----	----	76	UNCH
APR23	----	----	56.38 - 0.30		----	----	76	UNCH
MAY23	----	----	56.35 - 0.30		----	----	76	UNCH
JUN23	----	----	56.30 - 0.30		----	----	76	UNCH
JUL23	----	----	56.26 - 0.30		----	----	76	UNCH
AUG23	----	----	56.23 - 0.30		----	----	76	UNCH
SEP23	----	----	56.22 - 0.30		----	----	76	UNCH
OCT23	----	----	56.21 - 0.30		----	----	76	UNCH
NOV23	----	----	56.18 - 0.30		----	----	68	UNCH
DEC23	----	----	56.09 - 0.30		----	----	68	UNCH
JAN24	----	----	56.02 - 0.30		----	----	124	UNCH
FEB24	----	----	55.90 - 0.30		----	----	122	UNCH
MAR24	----	----	55.83 - 0.30		----	----	124	UNCH
APR24	----	----	55.78 - 0.30		----	----	123	UNCH
MAY24	----	----	55.75 - 0.29		----	----	124	UNCH
JUN24	----	----	55.71 - 0.29		----	----	123	UNCH
JUL24	----	----	55.66 - 0.29		----	----	124	UNCH
AUG24	----	----	55.60 - 0.29		----	----	124	UNCH
SEP24	----	----	55.59 - 0.29		----	----	123	UNCH
OCT24	----	----	55.60 - 0.29		----	----	124	UNCH
NOV24	----	----	55.57 - 0.29		----	----	123	UNCH
DEC24	----	----	55.46 - 0.29		----	----	124	UNCH
JAN25	----	----	55.39 - 0.29		----	----	10	UNCH
FEB25	----	----	55.32 - 0.29		----	----	10	UNCH
MAR25	----	----	55.26 - 0.29		----	----	10	UNCH
APR25	----	----	55.18 - 0.29		----	----	10	UNCH
MAY25	----	----	55.10 - 0.30		----	----	10	UNCH
JUN25	----	----	55.08 - 0.30		----	----	10	UNCH
JUL25	----	----	55.02 - 0.30		----	----	10	UNCH
AUG25	----	----	54.97 - 0.30		----	----	10	UNCH
SEP25	----	----	54.94 - 0.30		----	----	10	UNCH
OCT25	----	----	54.91 - 0.29		----	----	10	UNCH
NOV25	----	----	54.87 - 0.29		----	----	10	UNCH
DEC25	----	----	54.83 - 0.30		----	----	10	UNCH
TOTAL CS FUT						567	169030	+ 119
WCW FUT	WESTERN CANADIAN SELECT OIL MONTHLY							
DEC18	----	----	-42.933 UNCH		----	----	2185	UNCH
JAN19	----	----	-36.300 UNCH		----	----	1364	UNCH
FEB19	----	----	-31.300 UNCH		----	----	889	UNCH
MAR19	----	----	-27.800 UNCH		----	----	909	UNCH
APR19	----	----	-26.750 UNCH		----	----	564	UNCH
MAY19	----	----	-25.350 UNCH		----	----	544	UNCH
JUN19	----	----	-24.550 UNCH		----	----	544	UNCH
JUL19	----	----	-24.800 UNCH		----	----	519	UNCH
AUG19	----	----	-24.950 UNCH		----	----	519	UNCH
SEP19	----	----	-25.700 UNCH		----	----	519	UNCH
OCT19	----	----	-25.900 UNCH		----	----	509	UNCH
NOV19	----	----	-25.950 UNCH		----	----	509	UNCH
DEC19	----	----	-26.300 UNCH		----	----	509	UNCH
JAN20	----	----	-24.100 UNCH		----	----	104	UNCH
FEB20	----	----	-23.750 UNCH		----	----	104	UNCH
MAR20	----	----	-23.550 UNCH		----	----	104	UNCH
APR20	----	----	-23.100 UNCH		----	----	104	UNCH
MAY20	----	----	-23.000 UNCH		----	----	104	UNCH
JUN20	----	----	-22.750 UNCH		----	----	104	UNCH
JUL20	----	----	-22.600 UNCH		----	----	104	UNCH
AUG20	----	----	-22.800 UNCH		----	----	104	UNCH
SEP20	----	----	-23.150 UNCH		----	----	104	UNCH
OCT20	----	----	-25.200 UNCH		----	----	104	UNCH
NOV20	----	----	-26.050 UNCH		----	----	104	UNCH
DEC20	----	----	-26.150 UNCH		----	----	104	UNCH
TOTAL WCW FUT							11331	
42 FUT	WTI BALMO							
02NOV18	----	----	58.28 UNCH		----	----	15	UNCH
08NOV18	----	----	57.22 UNCH		----	----	72	UNCH
12NOV18	----	----	56.76 UNCH		----	----	80	UNCH
16NOV18	----	----	56.64 NEW		----	15	15 + 15	
TOTAL 42 FUT						15	182 + 15	
WS FUT	WTI FINANCIAL FUTURES							
DEC18	----	----	56.46 UNCH		----	----	286	UNCH
DEC19	----	----	57.97 - 0.10		----	----	250	UNCH
DEC20	----	----	57.49 - 0.26		----	----	36	UNCH
TOTAL WS FUT							572	
HTT FUT	WTI HOUSTON ARGUS V.WTI TRADE MONTH							
DEC18	----	----	6.60 + 0.05		----	----	13744	UNCH
JAN19	----	----	6.60 + 0.12		----	150	10330 - 50	
FEB19	----	----	6.45 + 0.07		----	150	10363 + 40	
MAR19	----	----	6.30 + 0.02		----	50	10220 UNCH	
APR19	----	----	6.25 + 0.02		----	130	8510 + 50	
MAY19	----	----	6.23 + 0.03		----	130	8355 + 28	
JUN19	----	----	6.20 + 0.02		----	130	8347 + 20	
JUL19	----	----	5.88 + 0.03		----	----	5525 UNCH	
AUG19	----	----	5.55 UNCH		----	----	5525 UNCH	
SEP19	----	----	5.23 - 0.02		----	----	5525 UNCH	
OCT19	----	----	5.10 UNCH		----	----	4917 UNCH	
NOV19	----	----	4.90 UNCH		----	----	4917 UNCH	

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		GLOBEX OPEN	GLOBEX HIGH/LOW		SETTL. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
HTT FUT		WTI HOUSTON ARGUS V. WTI TRADE MONTH							
DEC19		----	----	----	4.85 UNCH	----	----	4917	UNCH
JAN20		----	----	----	4.18 UNCH	----	----	2605	UNCH
FEB20		----	----	----	4.18 UNCH	----	----	2545	UNCH
MAR20		----	----	----	4.18 UNCH	----	----	2545	UNCH
APR20		----	----	----	4.18 UNCH	----	----	2525	UNCH
MAY20		----	----	----	4.18 UNCH	----	----	2525	UNCH
JUN20		----	----	----	4.18 UNCH	----	----	2525	UNCH
JUL20		----	----	----	4.18 UNCH	----	----	2602	UNCH
AUG20		----	----	----	4.18 UNCH	----	----	2602	UNCH
SEP20		----	----	----	4.18 UNCH	----	----	2602	UNCH
OCT20		----	----	----	4.18 UNCH	----	----	2602	UNCH
NOV20		----	----	----	4.18 UNCH	----	----	2602	UNCH
DEC20		----	----	----	4.18 UNCH	----	----	2602	UNCH
JAN21		----	----	----	3.43 UNCH	----	----	556	UNCH
FEB21		----	----	----	3.43 UNCH	----	----	556	UNCH
MAR21		----	----	----	3.43 UNCH	----	----	556	UNCH
APR21		----	----	----	3.43 UNCH	----	----	556	UNCH
MAY21		----	----	----	3.43 UNCH	----	----	556	UNCH
JUN21		----	----	----	3.43 UNCH	----	----	556	UNCH
JUL21		----	----	----	3.43 UNCH	----	----	556	UNCH
AUG21		----	----	----	3.43 UNCH	----	----	556	UNCH
SEP21		----	----	----	3.43 UNCH	----	----	556	UNCH
OCT21		----	----	----	3.43 UNCH	----	----	556	UNCH
NOV21		----	----	----	3.43 UNCH	----	----	556	UNCH
DEC21		----	----	----	3.43 UNCH	----	----	556	UNCH
TOTAL	HTT FUT						740	138749	+ 88
HCL FUT		WTI HOUSTON CRUDE OIL FUTURES							
JAN19		----	----	----	63.16 + 0.10	182	----	63	+ 3
FEB19		----	----	----	63.23 + 0.09	67	----	17	+ 7
MAR19		----	----	----	63.37 + 0.14	23	----	25	+ 7
APR19		----	----	----	63.32 + 0.08	----	----	3	UNCH
TOTAL	HCL FUT					272		108	+ 17
WTT FUT		WTI MIDLAND (ARG) VS. WTI TRADE MTH							
DEC18		----	----	----	-5.40 - 0.18	----	----	10891	UNCH
JAN19		----	----	----	-6.38 - 1.25	----	70	8418	- 30
FEB19		----	----	----	-6.50 - 0.82	----	30	8660	- 30
MAR19		----	----	----	-6.63 - 0.40	----	30	8670	- 30
APR19		----	----	----	-7.53 - 0.40	----	110	7520	+ 40
MAY19		----	----	----	-8.55 - 0.50	----	110	7520	+ 40
JUN19		----	----	----	-7.93 - 0.45	----	110	7645	+ 40
JUL19		----	----	----	-6.58 - 0.23	----	----	6979	UNCH
AUG19		----	----	----	-5.38 - 0.18	----	----	6964	UNCH
SEP19		----	----	----	-4.18 - 0.13	----	----	6964	UNCH
OCT19		----	----	----	-3.15 - 0.05	----	----	7220	UNCH
NOV19		----	----	----	-1.95 + 0.10	----	----	7220	UNCH
DEC19		----	----	----	-1.58 + 0.17	----	----	7120	UNCH
JAN20		----	----	----	0.10 UNCH	----	----	4898	UNCH
FEB20		----	----	----	0.10 UNCH	----	----	3908	UNCH
MAR20		----	----	----	0.10 UNCH	----	----	3908	UNCH
APR20		----	----	----	0.10 UNCH	----	----	3868	UNCH
MAY20		----	----	----	0.10 UNCH	----	----	3868	UNCH
JUN20		----	----	----	0.10 UNCH	----	----	3868	UNCH
JUL20		----	----	----	0.10 UNCH	----	----	4143	UNCH
AUG20		----	----	----	0.10 UNCH	----	----	4143	UNCH
SEP20		----	----	----	0.10 UNCH	----	----	4143	UNCH
OCT20		----	----	----	0.10 UNCH	----	----	4143	UNCH
NOV20		----	----	----	0.10 UNCH	----	----	4143	UNCH
DEC20		----	----	----	0.10 UNCH	----	----	4143	UNCH
JAN21		----	----	----	0.73 UNCH	----	----	410	UNCH
FEB21		----	----	----	0.73 UNCH	----	----	410	UNCH
MAR21		----	----	----	0.73 UNCH	----	----	410	UNCH
APR21		----	----	----	0.73 UNCH	----	----	410	UNCH
MAY21		----	----	----	0.73 UNCH	----	----	410	UNCH
JUN21		----	----	----	0.73 UNCH	----	----	410	UNCH
JUL21		----	----	----	0.73 UNCH	----	----	410	UNCH
AUG21		----	----	----	0.73 UNCH	----	----	410	UNCH
SEP21		----	----	----	0.73 UNCH	----	----	410	UNCH
OCT21		----	----	----	0.73 UNCH	----	----	410	UNCH
NOV21		----	----	----	0.73 UNCH	----	----	410	UNCH
DEC21		----	----	----	0.73 UNCH	----	----	410	UNCH
TOTAL	WTT FUT						460	155887	+ 30
FF FUT		WTI MIDLAND(ARGUS) VS WTI FINCL FUT							
NOV18		----	----	----	-5.78 - 0.62	----	----	4788	UNCH
DEC18		----	----	----	-6.40 - 1.16	----	----	4829	UNCH
JAN19		----	----	----	-6.52 - 0.74	----	----	1932	UNCH
FEB19		----	----	----	-6.77 - 0.40	----	----	1932	UNCH
MAR19		----	----	----	-7.72 - 0.41	----	----	1932	UNCH
APR19		----	----	----	-8.46 - 0.49	----	----	2104	UNCH
MAY19		----	----	----	-7.68 - 0.41	----	----	2104	UNCH
JUN19		----	----	----	-6.40 - 0.22	----	----	2104	UNCH
JUL19		----	----	----	-5.16 - 0.17	----	----	2075	UNCH
AUG19		----	----	----	-3.95 - 0.12	----	----	2020	UNCH
SEP19		----	----	----	-2.97 - 0.03	----	----	2075	UNCH
OCT19		----	----	----	-1.89 + 0.11	----	----	2195	UNCH
NOV19		----	----	----	-1.33 + 0.14	----	----	2140	UNCH
DEC19		----	----	----	0.10 UNCH	----	----	2140	UNCH
JAN20		----	----	----	0.10 UNCH	----	----	1820	UNCH
FEB20		----	----	----	0.10 UNCH	----	----	1820	UNCH
MAR20		----	----	----	0.10 UNCH	----	----	1820	UNCH
APR20		----	----	----	0.10 UNCH	----	----	1875	UNCH
MAY20		----	----	----	0.10 UNCH	----	----	1875	UNCH
JUN20		----	----	----	0.10 UNCH	----	----	1875	UNCH
JUL20		----	----	----	0.10 UNCH	----	----	1680	UNCH
AUG20		----	----	----	0.10 UNCH	----	----	1680	UNCH
SEP20		----	----	----	0.10 UNCH	----	----	1680	UNCH
OCT20		----	----	----	0.10 UNCH	----	----	1830	UNCH
NOV20		----	----	----	0.16 UNCH	----	----	1830	UNCH
DEC20		----	----	----	0.73 UNCH	----	----	1830	UNCH
JAN21		----	----	----	0.73 UNCH	----	----	45	UNCH
FEB21		----	----	----	0.73 UNCH	----	----	45	UNCH
MAR21		----	----	----	0.73 UNCH	----	----	45	UNCH
APR21		----	----	----	0.73 UNCH	----	----	45	UNCH
MAY21		----	----	----	0.73 UNCH	----	----	45	UNCH
JUN21		----	----	----	0.73 UNCH	----	----	45	UNCH

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
FF FUT	WTI MIDLAND(ARGUS) VS WTI FINCL FUT							
JUL21	----	----	0.73 UNCH		----	----	45	UNCH
AUG21	----	----	0.73 UNCH		----	----	45	UNCH
SEP21	----	----	0.73 UNCH		----	----	45	UNCH
OCT21	----	----	0.73 UNCH		----	----	45	UNCH
NOV21	----	----	0.73 UNCH		----	----	45	UNCH
DEC21	----	----	0.73 UNCH		----	----	45	UNCH
TOTAL FF FUT							56525	
BY FUT	WTI-BRENT BULLET							
JAN19	----	----	-10.08 - 0.14		----	----	525	UNCH
FEB19	----	----	-10.15 - 0.16		----	----	525	UNCH
MAR19	----	----	-10.14 - 0.18		----	----	525	UNCH
APR19	----	----	-10.09 - 0.17		----	----	525	UNCH
MAY19	----	----	-10.03 - 0.16		----	----	525	UNCH
JUN19	----	----	-9.94 - 0.14		----	----	525	UNCH
JUL19	----	----	-9.82 - 0.15		----	----	525	UNCH
AUG19	----	----	-9.62 - 0.12		----	----	525	UNCH
SEP19	----	----	-9.39 - 0.10		----	----	525	UNCH
OCT19	----	----	-9.19 - 0.09		----	----	525	UNCH
NOV19	----	----	-9.01 - 0.08		----	----	525	UNCH
DEC19	----	----	-8.82 - 0.10		----	----	525	UNCH
JAN20	----	----	-8.76 - 0.10		----	----	17	UNCH
FEB20	----	----	-8.69 - 0.10		----	----	17	UNCH
MAR20	----	----	-8.62 - 0.10		----	----	17	UNCH
APR20	----	----	-8.57 - 0.11		----	----	17	UNCH
MAY20	----	----	-8.51 - 0.11		----	----	17	UNCH
JUN20	----	----	-8.42 - 0.12		----	----	17	UNCH
JUL20	----	----	-8.35 - 0.12		----	----	17	UNCH
AUG20	----	----	-8.28 - 0.11		----	----	17	UNCH
SEP20	----	----	-8.23 - 0.12		----	----	17	UNCH
OCT20	----	----	-8.16 - 0.12		----	----	17	UNCH
NOV20	----	----	-8.09 - 0.11		----	----	17	UNCH
DEC20	----	----	-8.02 - 0.13		----	----	17	UNCH
TOTAL BY FUT							6504	
BK FUT	WTI-BRENT CALENDAR							
NOV18	----	----	-9.95 - 0.07		----	----	7952	UNCH
DEC18	----	----	-10.30 - 0.15		----	1155	7575 + 925	
JAN19	----	----	-10.28 - 0.18		----	----	6417	UNCH
FEB19	----	----	-10.22 - 0.17		----	----	5892	UNCH
MAR19	----	----	-10.15 - 0.16		----	----	5327	UNCH
APR19	----	----	-10.05 - 0.14		----	50	4967 + 20	
MAY19	----	----	-9.88 - 0.14		----	50	4967 + 20	
JUN19	----	----	-9.67 - 0.12		----	50	4967 + 20	
JUL19	----	----	-9.43 - 0.09		----	----	5337	UNCH
AUG19	----	----	-9.22 - 0.09		----	----	5337	UNCH
SEP19	----	----	-9.03 - 0.08		----	----	5337	UNCH
OCT19	----	----	-8.84 - 0.08		----	----	5287	UNCH
NOV19	----	----	-8.71 - 0.09		----	----	5287	UNCH
DEC19	----	----	-8.65 - 0.10		----	----	5287	UNCH
JAN20	----	----	-8.60 - 0.10		----	----	4328	UNCH
FEB20	----	----	-8.54 - 0.09		----	----	4328	UNCH
MAR20	----	----	-8.48 - 0.10		----	----	4328	UNCH
APR20	----	----	-8.40 - 0.11		----	----	4388	UNCH
MAY20	----	----	-8.30 - 0.11		----	----	4388	UNCH
JUN20	----	----	-8.24 - 0.10		----	----	4388	UNCH
JUL20	----	----	-8.20 - 0.11		----	----	4268	UNCH
AUG20	----	----	-8.13 - 0.11		----	----	4268	UNCH
SEP20	----	----	-8.07 - 0.10		----	----	4268	UNCH
OCT20	----	----	-8.01 - 0.11		----	----	4268	UNCH
NOV20	----	----	-7.93 - 0.13		----	----	4268	UNCH
DEC20	----	----	-7.94 - 0.14		----	----	4268	UNCH
JAN21	----	----	-7.94 - 0.15		----	10	210 + 10	
FEB21	----	----	-7.92 - 0.15		----	10	210 + 10	
MAR21	----	----	-7.90 - 0.15		----	10	210 + 10	
APR21	----	----	-7.88 - 0.15		----	10	210 + 10	
MAY21	----	----	-7.84 - 0.12		----	10	210 + 10	
JUN21	----	----	-7.83 - 0.11		----	10	210 + 10	
JUL21	----	----	-7.79 - 0.10		----	10	210 + 10	
AUG21	----	----	-7.75 - 0.10		----	10	210 + 10	
SEP21	----	----	-7.68 - 0.08		----	10	210 + 10	
OCT21	----	----	-7.60 - 0.08		----	10	210 + 10	
NOV21	----	----	-7.58 - 0.08		----	10	210 + 10	
DEC21	----	----	-7.61 - 0.08		----	10	210 + 10	
JAN22	----	----	-7.63 - 0.08		----	----	140	UNCH
FEB22	----	----	-7.63 - 0.08		----	----	140	UNCH
MAR22	----	----	-7.63 - 0.08		----	----	140	UNCH
APR22	----	----	-7.62 - 0.08		----	----	140	UNCH
MAY22	----	----	-7.60 - 0.07		----	----	140	UNCH
JUN22	----	----	-7.61 - 0.08		----	----	140	UNCH
JUL22	----	----	-7.61 - 0.08		----	----	140	UNCH
AUG22	----	----	-7.59 - 0.09		----	----	140	UNCH
SEP22	----	----	-7.57 - 0.10		----	----	140	UNCH
OCT22	----	----	-7.53 - 0.09		----	----	140	UNCH
NOV22	----	----	-7.55 - 0.11		----	----	140	UNCH
DEC22	----	----	-7.61 - 0.12		----	----	140	UNCH
TOTAL BK FUT						1425	135892 + 1105	
FH FUT	WTS (ARGUS) VS WTI TRD MTH							
DEC18	----	----	-5.87 - 0.17		----	----	625	UNCH
JAN19	----	----	-7.28 - 1.28		----	----	400	UNCH
FEB19	----	----	-7.53 - 0.88		----	----	400	UNCH
MAR19	----	----	-7.65 - 0.45		----	----	400	UNCH
APR19	----	----	-8.55 - 0.45		----	----	400	UNCH
MAY19	----	----	-9.58 - 0.45		----	----	400	UNCH
JUN19	----	----	-9.00 - 0.45		----	----	400	UNCH
JUL19	----	----	-7.68 - 0.25		----	----	380	UNCH
AUG19	----	----	-6.58 - 0.20		----	----	394	UNCH
SEP19	----	----	-5.38 - 0.15		----	----	394	UNCH
OCT19	----	----	-4.48 - 0.15		----	----	394	UNCH
NOV19	----	----	-3.48 - 0.15		----	----	394	UNCH
DEC19	----	----	-3.23 - 0.15		----	----	394	UNCH
JAN20	----	----	-2.33 - 0.15		----	----	14	UNCH
FEB20	----	----	-2.33 - 0.15		----	----	14	UNCH
MAR20	----	----	-2.33 - 0.15		----	----	14	UNCH
APR20	----	----	-2.33 - 0.15		----	----	14	UNCH
MAY20	----	----	-2.33 - 0.15		----	----	14	UNCH

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
FH FUT	WTS (ARGUS) VS WTI TRD MTH						
JUN20	----	----	-2.33 - 0.15	----	----	14	UNCH
JUL20	----	----	-2.33 - 0.15	----	----	14	UNCH
TOTAL FH FUT						5473	

NATURAL GAS FUTURES PRODUCTS

	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NE FUT	ANR OKLAHOMA						
DEC18	----	----	-0.3120 - 0.0350	----	----	93	UNCH
JAN19	----	----	-0.3410 - 0.0510	----	----	62	UNCH
FEB19	----	----	-0.3240 - 0.0230	----	----	56	UNCH
MAR19	----	----	-0.6160 - 0.0230	----	----	62	UNCH
TOTAL NE FUT						273	
PW FUT	CENTERPOINT BASIS						
DEC18	----	----	-0.1780 - 0.0200	----	----	543	UNCH
JAN19	----	----	-0.1220 + 0.0130	----	----	450	UNCH
FEB19	----	----	-0.1600 - 0.0230	----	----	420	UNCH
MAR19	----	----	-0.1670 - 0.0100	----	----	450	UNCH
APR19	----	----	-0.2370 + 0.0090	----	----	110	UNCH
MAY19	----	----	-0.2580 + 0.0090	----	----	109	UNCH
JUN19	----	----	-0.2710 + 0.0080	----	----	110	UNCH
JUL19	----	----	-0.2710 + 0.0090	----	----	109	UNCH
AUG19	----	----	-0.2710 + 0.0090	----	----	109	UNCH
SEP19	----	----	-0.2960 + 0.0070	----	----	110	UNCH
OCT19	----	----	-0.3010 + 0.0070	----	----	109	UNCH
NOV19	----	----	-0.2700 - 0.0020	----	----	140	UNCH
TOTAL PW FUT						2769	
CI FUT	CIG BASIS						
DEC18	----	----	-0.0910 + 0.0740	----	----	1269	UNCH
JAN19	----	----	-0.1560 + 0.0870	----	----	563	UNCH
FEB19	----	----	-0.4310 + 0.0480	----	----	509	UNCH
MAR19	----	----	-0.5990 + 0.0340	----	----	563	UNCH
APR19	----	----	-0.8340 - 0.0030	----	----	552	UNCH
MAY19	----	----	-0.8240 UNCH	----	----	570	UNCH
JUN19	----	----	-0.8190 UNCH	----	----	552	UNCH
JUL19	----	----	-0.6960 - 0.0010	----	----	570	UNCH
AUG19	----	----	-0.6600 UNCH	----	----	570	UNCH
SEP19	----	----	-0.6580 - 0.0010	----	----	552	UNCH
OCT19	----	----	-0.7670 + 0.0060	----	----	570	UNCH
NOV19	----	----	-0.7460 + 0.0150	----	----	540	UNCH
DEC19	----	----	-0.5350 + 0.0100	----	----	558	UNCH
TOTAL CI FUT						7938	
5Z FUT	COLUMB GULF MAINLINE NG BASIS						
DEC18	----	----	-0.1360 - 0.0090	----	----	56	UNCH
JAN19	----	----	-0.1560 - 0.0340	----	----	25	UNCH
FEB19	----	----	-0.1420 - 0.0220	----	----	25	UNCH
MAR19	----	----	-0.1560 - 0.0350	----	----	24	UNCH
APR19	----	----	-0.1720 + 0.0070	----	----	24	UNCH
MAY19	----	----	-0.1770 + 0.0070	----	----	24	UNCH
JUN19	----	----	-0.1790 + 0.0070	----	----	24	UNCH
JUL19	----	----	-0.1840 + 0.0070	----	----	24	UNCH
AUG19	----	----	-0.1840 + 0.0070	----	----	24	UNCH
SEP19	----	----	-0.1760 + 0.0050	----	----	24	UNCH
OCT19	----	----	-0.1840 + 0.0070	----	----	24	UNCH
NOV19	----	----	-0.1830 - 0.0020	----	----	23	UNCH
DEC19	----	----	-0.1780 - 0.0030	----	----	23	UNCH
JAN20	----	----	-0.1840 - 0.0020	----	----	23	UNCH
FEB20	----	----	-0.1660 - 0.0020	----	----	23	UNCH
MAR20	----	----	-0.1710 - 0.0020	----	----	23	UNCH
APR20	----	----	-0.1870 - 0.0040	----	----	23	UNCH
MAY20	----	----	-0.1930 - 0.0040	----	----	23	UNCH
JUN20	----	----	-0.1980 - 0.0040	----	----	23	UNCH
JUL20	----	----	-0.1980 - 0.0040	----	----	23	UNCH
AUG20	----	----	-0.1980 - 0.0040	----	----	22	UNCH
SEP20	----	----	-0.1980 - 0.0040	----	----	22	UNCH
OCT20	----	----	-0.1920 - 0.0030	----	----	22	UNCH
NOV20	----	----	-0.1930 - 0.0010	----	----	22	UNCH
DEC20	----	----	-0.1950 - 0.0010	----	----	22	UNCH
TOTAL 5Z FUT						615	
IH FUT	DOMINION TRAN INC - APP INDEX						
NOV18	----	----	0.8630 + 0.1420	----	----	240	UNCH
DEC18	----	----	0.0000 UNCH	----	----	248	UNCH
TOTAL IH FUT						488	
PG FUT	DOMINION TRANSMISSION INC -APPALAC						
DEC18	----	----	-0.3910 + 0.0030	----	----	837	UNCH
JAN19	----	----	-0.4380 - 0.0130	----	----	1488	UNCH
FEB19	----	----	-0.4200 - 0.0120	----	----	1344	UNCH
MAR19	----	----	-0.3860 - 0.0040	----	----	1488	UNCH
APR19	----	----	-0.3710 - 0.0120	----	----	600	UNCH
MAY19	----	----	-0.4660 - 0.0060	----	----	620	UNCH
JUN19	----	----	-0.4890 - 0.0120	----	----	600	UNCH
JUL19	----	----	-0.5290 - 0.0120	----	----	620	UNCH
AUG19	----	----	-0.5860 - 0.0110	----	----	620	UNCH
SEP19	----	----	-0.7590 - 0.0110	----	----	600	UNCH
OCT19	----	----	-0.7260 - 0.0110	----	----	620	UNCH
NOV19	----	----	-0.4990 - 0.0050	----	----	690	UNCH
DEC19	----	----	-0.4380 - 0.0050	----	----	713	UNCH
JAN20	----	----	-0.4500 - 0.0060	----	----	403	UNCH
FEB20	----	----	-0.4560 - 0.0070	----	----	377	UNCH
MAR20	----	----	-0.4260 - 0.0060	----	----	403	UNCH
APR20	----	----	-0.4370 - 0.0140	----	----	180	UNCH
MAY20	----	----	-0.5470 - 0.0130	----	----	186	UNCH
JUN20	----	----	-0.5700 - 0.0130	----	----	180	UNCH
JUL20	----	----	-0.6340 - 0.0110	----	----	186	UNCH

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PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST
PG FUT DOMINION TRANSMISSION INC -APPALAC						
AUG20	----	----	-0.6420 - 0.0120	----	----	186 UNCH
SEP20	----	----	-0.8170 - 0.0100	----	----	180 UNCH
OCT20	----	----	-0.7980 - 0.0090	----	----	186 UNCH
NOV20	----	----	-0.4980 - 0.0070	----	----	180 UNCH
DEC20	----	----	-0.4760 - 0.0060	----	----	186 UNCH
APR21	----	----	-0.4590 - 0.0010	----	----	18 UNCH
MAY21	----	----	-0.6220 - 0.0030	----	----	18 UNCH
JUN21	----	----	-0.6320 - 0.0080	----	----	18 UNCH
JUL21	----	----	-0.7130 - 0.0070	----	----	18 UNCH
AUG21	----	----	-0.7280 - 0.0060	----	----	18 UNCH
SEP21	----	----	-0.9020 - 0.0040	----	----	18 UNCH
OCT21	----	----	-0.8780 - 0.0040	----	----	18 UNCH
TOTAL PG FUT						13799
TTF FUT DUTCH TTF NATURAL GAS CAL MONTH FUT						
DEC18	26.725	26.755B/25.650	25.955 - 0.720	55	----	90 - 10
JAN19	----	----	26.050 - 0.675	15	----	34 UNCH
FEB19	----	----	26.080 - 0.695	15	----	39 UNCH
MAR19	----	----	25.675 - 0.695	15	----	39 UNCH
APR19	----	----	23.215 - 0.480	5	----	9 - 1
MAY19	----	----	22.365 - 0.370	5	----	9 - 1
JUN19	----	----	22.050 - 0.310	5	----	9 - 1
JUL19	----	----	21.985 - 0.340	5	----	9 - 1
AUG19	----	----	21.975 - 0.360	5	----	9 - 1
SEP19	----	----	22.375 - 0.360	5	----	9 - 1
OCT19	----	----	22.895 - 0.355	5	----	9 - 1
NOV19	----	----	23.555 - 0.345	5	----	9 - 1
DEC19	----	----	23.815 - 0.345	5	----	9 - 1
TOTAL TTF FUT				145		283 - 19
TTE FUT DUTCH TTF NATURAL GAS FRONT MTH FUT						
DEC18	----	----	8.696 - 0.181	----	----	3 UNCH
TOTAL TTE FUT						3
NN FUT HENRY HUB						
DEC18	----	----	4.272 + 0.234	----	124	40974 + 124
JAN19	----	----	4.291 + 0.248	----	128	43408 UNCH
FEB19	----	----	4.148 + 0.251	----	112	35109 + 112
MAR19	----	----	3.865 + 0.269	----	136	38702 + 136
APR19	----	----	2.793 - 0.001	----	368	35953 + 140
MAY19	----	----	2.667 + 0.015	----	360	39158 + 132
JUN19	----	----	2.692 + 0.014	----	360	38340 + 12
JUL19	----	----	2.724 + 0.015	----	368	39927 + 16
AUG19	----	----	2.719 + 0.014	----	376	41304 + 24
SEP19	----	----	2.693 + 0.014	----	368	37700 + 57
OCT19	----	----	2.711 + 0.014	----	356	39687 + 128
NOV19	----	----	2.755 + 0.011	----	404	36868 + 172
DEC19	----	----	2.901 + 0.004	----	430	38399 + 198
JAN20	----	----	3.015 - 0.002	----	528	27032 + 167
FEB20	----	----	2.956 - 0.003	----	512	25207 + 157
MAR20	----	----	2.798 - 0.006	----	528	27488 + 167
APR20	----	----	2.500 - 0.005	----	124	18202 + 26
MAY20	----	----	2.466 - 0.003	----	130	19984 + 29
JUN20	----	----	2.515 - 0.003	----	132	19246 + 34
JUL20	----	----	2.565 - 0.004	----	134	19419 + 33
AUG20	----	----	2.575 - 0.001	----	134	19455 + 33
SEP20	----	----	2.561 + 0.002	----	124	18903 + 26
OCT20	----	----	2.579 + 0.002	----	110	19733 + 17
NOV20	----	----	2.644 + 0.003	----	116	20220 + 26
DEC20	----	----	2.807 + 0.009	----	118	20503 + 22
JAN21	----	----	2.907 - 0.001	----	12	9561 + 12
FEB21	----	----	2.862 - 0.001	----	12	9119 + 12
MAR21	----	----	2.742 - 0.001	----	12	9699 + 12
APR21	----	----	2.497 - 0.004	----	----	9116 UNCH
MAY21	----	----	2.465 - 0.004	----	----	9644 UNCH
JUN21	----	----	2.495 - 0.004	----	----	9400 UNCH
JUL21	----	----	2.528 - 0.004	----	----	9385 UNCH
AUG21	----	----	2.542 - 0.004	----	----	9474 UNCH
SEP21	----	----	2.535 - 0.004	----	----	9063 UNCH
OCT21	----	----	2.558 - 0.004	----	----	9300 UNCH
NOV21	----	----	2.622 - 0.006	----	----	8796 UNCH
DEC21	----	----	2.772 - 0.006	----	----	9137 UNCH
JAN22	----	----	2.882 - 0.011	----	----	6525 UNCH
FEB22	----	----	2.838 - 0.011	----	----	5957 UNCH
MAR22	----	----	2.753 - 0.013	----	----	6533 UNCH
APR22	----	----	2.514 - 0.015	----	----	5856 UNCH
MAY22	----	----	2.485 - 0.015	----	----	6034 UNCH
JUN22	----	----	2.513 - 0.015	----	----	5830 UNCH
JUL22	----	----	2.544 - 0.015	----	----	6006 UNCH
AUG22	----	----	2.559 - 0.015	----	----	6002 UNCH
SEP22	----	----	2.553 - 0.015	----	----	5825 UNCH
OCT22	----	----	2.576 - 0.015	----	----	6032 UNCH
NOV22	----	----	2.638 - 0.015	----	----	5253 UNCH
DEC22	----	----	2.781 - 0.015	----	----	5406 UNCH
JAN23	----	----	2.891 - 0.015	----	31	4288 + 31
FEB23	----	----	2.847 - 0.015	----	28	3802 + 28
MAR23	----	----	2.762 - 0.020	----	31	4183 + 31
APR23	----	----	2.530 - 0.029	----	30	3812 + 30
MAY23	----	----	2.515 - 0.029	----	31	3938 + 31
JUN23	----	----	2.545 - 0.029	----	30	3812 + 30
JUL23	----	----	2.579 - 0.029	----	31	3914 + 31
AUG23	----	----	2.599 - 0.029	----	31	3914 + 31
SEP23	----	----	2.605 - 0.029	----	30	3784 + 30
OCT23	----	----	2.635 - 0.029	----	31	3914 + 31
NOV23	----	----	2.702 - 0.029	----	30	3906 + 30
DEC23	----	----	2.850 - 0.029	----	31	4031 + 31
JAN24	----	----	2.960 - 0.029	----	----	2446 UNCH
FEB24	----	----	2.923 - 0.029	----	----	2304 UNCH
MAR24	----	----	2.853 - 0.029	----	----	2330 UNCH
APR24	----	----	2.631 - 0.029	----	----	1882 UNCH
MAY24	----	----	2.614 - 0.029	----	----	2012 UNCH
JUN24	----	----	2.643 - 0.029	----	----	1956 UNCH
JUL24	----	----	2.675 - 0.029	----	----	2020 UNCH
AUG24	----	----	2.694 - 0.029	----	----	2012 UNCH
SEP24	----	----	2.699 - 0.029	----	----	1944 UNCH
OCT24	----	----	2.728 - 0.029	----	----	1943 UNCH
NOV24	----	----	2.794 - 0.029	----	----	1882 UNCH

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NN FUT	HENRY HUB							
DEC24	----	----	2.944 - 0.029		----	----	2031	UNCH
JAN25	----	----	3.059 - 0.029		----	----	2202	UNCH
FEB25	----	----	3.024 - 0.029		----	----	1988	UNCH
MAR25	----	----	2.959 - 0.029		----	----	2082	UNCH
APR25	----	----	2.739 - 0.029		----	----	2029	UNCH
MAY25	----	----	2.721 - 0.029		----	----	2202	UNCH
JUN25	----	----	2.750 - 0.029		----	----	2153	UNCH
JUL25	----	----	2.782 - 0.029		----	----	2222	UNCH
AUG25	----	----	2.801 - 0.029		----	----	2214	UNCH
SEP25	----	----	2.805 - 0.029		----	----	2137	UNCH
OCT25	----	----	2.836 - 0.029		----	----	2094	UNCH
NOV25	----	----	2.902 - 0.029		----	----	2016	UNCH
DEC25	----	----	3.054 - 0.029		----	----	2182	UNCH
JAN26	----	----	3.176 - 0.029		----	----	858	UNCH
FEB26	----	----	3.143 - 0.029		----	----	789	UNCH
MAR26	----	----	3.078 - 0.029		----	----	858	UNCH
APR26	----	----	2.853 - 0.029		----	----	835	UNCH
MAY26	----	----	2.835 - 0.029		----	----	858	UNCH
JUN26	----	----	2.856 - 0.029		----	----	835	UNCH
JUL26	----	----	2.880 - 0.029		----	----	858	UNCH
AUG26	----	----	2.900 - 0.029		----	----	858	UNCH
SEP26	----	----	2.904 - 0.029		----	----	835	UNCH
OCT26	----	----	2.932 - 0.029		----	----	858	UNCH
NOV26	----	----	2.998 - 0.029		----	----	835	UNCH
DEC26	----	----	3.143 - 0.029		----	----	858	UNCH
JAN27	----	----	3.263 - 0.029		----	----	423	UNCH
FEB27	----	----	3.230 - 0.029		----	----	384	UNCH
MAR27	----	----	3.165 - 0.029		----	----	423	UNCH
APR27	----	----	2.935 - 0.029		----	----	410	UNCH
MAY27	----	----	2.916 - 0.029		----	----	423	UNCH
JUN27	----	----	2.942 - 0.029		----	----	410	UNCH
JUL27	----	----	2.970 - 0.029		----	----	423	UNCH
AUG27	----	----	2.988 - 0.029		----	----	423	UNCH
SEP27	----	----	2.993 - 0.029		----	----	410	UNCH
OCT27	----	----	3.021 - 0.029		----	----	423	UNCH
NOV27	----	----	3.087 - 0.029		----	----	410	UNCH
DEC27	----	----	3.234 - 0.029		----	----	423	UNCH
JAN28	----	----	3.355 - 0.029		----	----	341	UNCH
FEB28	----	----	3.323 - 0.029		----	----	319	UNCH
MAR28	----	----	3.258 - 0.029		----	----	341	UNCH
APR28	----	----	2.990 - 0.029		----	----	330	UNCH
MAY28	----	----	2.968 - 0.029		----	----	341	UNCH
JUN28	----	----	2.998 - 0.029		----	----	330	UNCH
JUL28	----	----	3.038 - 0.029		----	----	341	UNCH
AUG28	----	----	3.078 - 0.029		----	----	341	UNCH
SEP28	----	----	3.093 - 0.029		----	----	330	UNCH
OCT28	----	----	3.139 - 0.029		----	----	341	UNCH
NOV28	----	----	3.209 - 0.029		----	----	330	UNCH
DEC28	----	----	3.359 - 0.029		----	----	341	UNCH
JAN29	----	----	3.483 - 0.029		----	----	31	UNCH
FEB29	----	----	3.452 - 0.029		----	----	28	UNCH
MAR29	----	----	3.387 - 0.029		----	----	31	UNCH
APR29	----	----	3.082 - 0.029		----	----	30	UNCH
MAY29	----	----	3.060 - 0.029		----	----	31	UNCH
JUN29	----	----	3.090 - 0.029		----	----	30	UNCH
JUL29	----	----	3.130 - 0.029		----	----	31	UNCH
AUG29	----	----	3.170 - 0.029		----	----	31	UNCH
SEP29	----	----	3.185 - 0.029		----	----	30	UNCH
OCT29	----	----	3.231 - 0.029		----	----	31	UNCH
NOV29	----	----	3.303 - 0.029		----	----	30	UNCH
DEC29	----	----	3.455 - 0.029		----	----	31	UNCH
JAN30	----	----	3.586 - 0.029		----	----	310	UNCH
FEB30	----	----	3.556 - 0.029		----	----	280	UNCH
MAR30	----	----	3.491 - 0.029		----	----	310	UNCH
APR30	----	----	3.166 - 0.029		----	----	300	UNCH
MAY30	----	----	3.144 - 0.029		----	----	310	UNCH
JUN30	----	----	3.179 - 0.029		----	----	300	UNCH
JUL30	----	----	3.224 - 0.029		----	----	310	UNCH
AUG30	----	----	3.264 - 0.029		----	----	310	UNCH
SEP30	----	----	3.279 - 0.029		----	----	300	UNCH
OCT30	----	----	3.325 - 0.029		----	----	310	UNCH
NOV30	----	----	3.397 - 0.029		----	----	300	UNCH
DEC30	----	----	3.552 - 0.029		----	----	310	UNCH
TOTAL NN FUT						6981	1064616	+ 2389
HB FUT	HENRY HUB BASIS							
DEC18	----	----	0.0020	UNCH	----	----	124	UNCH
JAN19	----	----	0.0050	UNCH	----	----	62	UNCH
APR19	----	----	0.0010	UNCH	----	----	1410	UNCH
MAY19	----	----	0.0010	UNCH	----	----	1457	UNCH
JUN19	----	----	0.0010	UNCH	----	----	1410	UNCH
JUL19	----	----	0.0010	UNCH	----	----	1457	UNCH
AUG19	----	----	0.0010	UNCH	----	----	1457	UNCH
SEP19	----	----	0.0010	UNCH	----	----	1410	UNCH
OCT19	----	----	0.0010	UNCH	----	----	1457	UNCH
TOTAL HB FUT							10244	
IN FUT	HENRY HUB INDEX FUTURE							
NOV18	----	----	0.7880	+ 0.1480	----	----	6600	UNCH
JAN19	----	----	0.0000	UNCH	----	----	62	UNCH
APR19	----	----	0.0050	UNCH	----	----	1410	UNCH
MAY19	----	----	0.0050	UNCH	----	----	1457	UNCH
JUN19	----	----	0.0050	UNCH	----	----	1410	UNCH
JUL19	----	----	0.0050	UNCH	----	----	1457	UNCH
AUG19	----	----	0.0050	UNCH	----	----	1457	UNCH
SEP19	----	----	0.0050	UNCH	----	----	1410	UNCH
OCT19	----	----	0.0050	UNCH	----	----	1457	UNCH
TOTAL IN FUT							16720	
HH FUT	HENRY HUB NG LAST DAY FINANCIAL							
DEC18	3.979	4.383B/3.936A	4.272	+ 0.234	3004	997	42883	- 461
JAN19	3.920	4.386B/3.920	4.291	+ 0.248	841	1142	54670	+ 1102
FEB19	3.825	4.247 /3.804A	4.148	+ 0.251	1340	47	38245	+ 246
MAR19	3.679	3.990B/3.524A	3.865	+ 0.269	1190	1345	41459	+ 1303
APR19	2.803	2.810 /2.796	2.793	- 0.001	1085	1115	42098	- 1337
MAY19	2.666	2.674B/2.652A	2.667	+ 0.015	112	1137	33913	+ 1089
JUN19	2.694	2.694 /2.693A	2.692	+ 0.014	131	236	19313	+ 14

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PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

HH FUT	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL® VOLUME	PNT/PIT VOLUME	OPEN INTEREST
HENRY HUB NG LAST DAY FINANCIAL						
JUL19	----	----	2.724 + 0.015	204	496	22667 - 294
AUG19	----	----	2.719 + 0.014	106	45	21843 - 40
SEP19	2.697	2.697 /2.695A	2.693 + 0.014	132	240	16294 - 64
OCT19	2.717	2.717 /2.713A	2.711 + 0.014	249	2632	29417 + 2500
NOV19	----	----	2.755 + 0.011	9	5988	28951 + 3525
DEC19	----	----	2.901 + 0.004	180	442	19754 - 154
JAN20	3.013	3.013 /3.011A	3.015 - 0.002	100	37	10814 - 21
FEB20	----	----	2.956 - 0.003	122	37	5371 + 47
MAR20	2.810	2.810 /2.810	2.798 - 0.006	61	1189	7682 + 1132
APR20	----	----	2.500 - 0.005	88	3999	10542 + 2351
MAY20	----	----	2.466 - 0.003	44	71	7512 + 31
JUN20	----	----	2.515 - 0.003	42	153	3895 + 4
JUL20	----	----	2.565 - 0.004	18	21	2972 + 14
AUG20	2.582	2.582 /2.582	2.575 - 0.001	12	21	3877 - 7
SEP20	----	----	2.561 + 0.002	18	19	3633 + 12
OCT20	----	----	2.579 + 0.002	34	121	3809 + 15
NOV20	----	----	2.644 + 0.003	10	59	3745 - 42
DEC20	----	----	2.807 + 0.009	2	809	8440 - 800
JAN21	----	----	2.907 - 0.001	----	1	2294 + 1
FEB21	----	----	2.862 - 0.001	----	1	1103 - 1
MAR21	----	----	2.742 - 0.001	----	1	1559 UNCH
APR21	----	----	2.497 - 0.004	----	----	1074 UNCH
MAY21	----	----	2.465 - 0.004	----	1	736 + 1
JUN21	----	----	2.495 - 0.004	----	----	778 UNCH
JUL21	----	----	2.528 - 0.004	----	1	756 + 1
AUG21	----	----	2.542 - 0.004	----	1	1138 UNCH
SEP21	----	----	2.535 - 0.004	----	----	687 UNCH
OCT21	----	----	2.558 - 0.004	----	1	1307 + 1
NOV21	----	----	2.622 - 0.006	----	----	648 UNCH
DEC21	----	----	2.772 - 0.006	----	1	975 UNCH
JAN22	----	----	2.882 - 0.011	----	----	1062 UNCH
FEB22	----	----	2.838 - 0.011	----	----	370 UNCH
MAR22	----	----	2.753 - 0.013	----	----	530 UNCH
APR22	----	----	2.514 - 0.015	----	----	342 UNCH
MAY22	----	----	2.485 - 0.015	----	----	270 UNCH
JUN22	----	----	2.513 - 0.015	----	----	297 UNCH
JUL22	----	----	2.544 - 0.015	----	----	237 UNCH
AUG22	----	----	2.559 - 0.015	----	----	308 UNCH
SEP22	----	----	2.553 - 0.015	----	----	220 UNCH
OCT22	----	----	2.576 - 0.015	----	----	181 UNCH
NOV22	----	----	2.638 - 0.015	----	----	228 UNCH
DEC22	----	----	2.781 - 0.015	----	----	308 UNCH
JAN23	----	----	2.891 - 0.015	----	----	224 UNCH
FEB23	----	----	2.847 - 0.015	----	----	211 UNCH
MAR23	----	----	2.762 - 0.020	----	----	141 UNCH
APR23	----	----	2.530 - 0.029	----	----	166 UNCH
MAY23	----	----	2.515 - 0.029	----	----	209 UNCH
JUN23	----	----	2.545 - 0.029	----	----	258 UNCH
JUL23	----	----	2.579 - 0.029	----	----	248 UNCH
AUG23	----	----	2.599 - 0.029	----	----	231 UNCH
SEP23	----	----	2.605 - 0.029	----	----	219 UNCH
OCT23	----	----	2.635 - 0.029	----	----	148 UNCH
NOV23	----	----	2.702 - 0.029	----	----	206 UNCH
DEC23	----	----	2.850 - 0.029	----	----	206 UNCH
JAN24	----	----	2.960 - 0.029	----	----	170 UNCH
FEB24	----	----	2.923 - 0.029	----	----	199 UNCH
MAR24	----	----	2.853 - 0.029	----	----	181 UNCH
APR24	----	----	2.631 - 0.029	----	----	205 UNCH
MAY24	----	----	2.614 - 0.029	----	----	95 UNCH
JUN24	----	----	2.643 - 0.029	----	----	97 UNCH
JUL24	----	----	2.675 - 0.029	----	----	97 UNCH
AUG24	----	----	2.694 - 0.029	----	----	95 UNCH
SEP24	----	----	2.699 - 0.029	----	----	95 UNCH
OCT24	----	----	2.728 - 0.029	----	----	127 UNCH
NOV24	----	----	2.794 - 0.029	----	----	91 UNCH
DEC24	----	----	2.944 - 0.029	----	----	103 UNCH
JAN25	----	----	3.059 - 0.029	----	----	128 UNCH
FEB25	----	----	3.024 - 0.029	----	----	124 UNCH
MAR25	----	----	2.959 - 0.029	----	----	114 UNCH
APR25	----	----	2.739 - 0.029	----	----	55 UNCH
MAY25	----	----	2.721 - 0.029	----	----	59 UNCH
JUN25	----	----	2.750 - 0.029	----	----	61 UNCH
JUL25	----	----	2.782 - 0.029	----	----	63 UNCH
AUG25	----	----	2.801 - 0.029	----	----	61 UNCH
SEP25	----	----	2.805 - 0.029	----	----	57 UNCH
OCT25	----	----	2.836 - 0.029	----	----	45 UNCH
NOV25	----	----	2.902 - 0.029	----	----	34 UNCH
DEC25	----	----	3.054 - 0.029	----	----	36 UNCH
JAN26	----	----	3.176 - 0.029	----	----	33 UNCH
FEB26	----	----	3.143 - 0.029	----	----	31 UNCH
MAR26	----	----	3.078 - 0.029	----	----	21 UNCH
APR26	----	----	2.853 - 0.029	----	----	27 UNCH
MAY26	----	----	2.835 - 0.029	----	----	33 UNCH
JUN26	----	----	2.856 - 0.029	----	----	35 UNCH
JUL26	----	----	2.880 - 0.029	----	----	37 UNCH
AUG26	----	----	2.900 - 0.029	----	----	35 UNCH
SEP26	----	----	2.904 - 0.029	----	----	31 UNCH
OCT26	----	----	2.932 - 0.029	----	----	23 UNCH
NOV26	----	----	2.998 - 0.029	----	----	29 UNCH
DEC26	----	----	3.143 - 0.029	----	----	31 UNCH
TOTAL HH FUT				9134	22406	506432 + 10168
HENRY HUB PENULTIMATE FUT						
DEC18	----	----	4.272 + 0.234	----	535	11252 - 153
JAN19	----	----	4.291 + 0.248	----	73	14180 + 51
FEB19	----	----	4.148 + 0.251	----	555	12288 + 279
MAR19	----	----	3.865 + 0.269	----	1204	14057 + 320
APR19	----	----	2.793 - 0.001	----	3384	13016 + 1617
MAY19	----	----	2.667 + 0.015	----	1390	10798 + 1390
JUN19	----	----	2.692 + 0.014	----	----	5344 UNCH
JUL19	----	----	2.724 + 0.015	----	684	4667 - 192
AUG19	----	----	2.719 + 0.014	----	----	8211 UNCH
SEP19	----	----	2.693 + 0.014	----	----	4711 UNCH
OCT19	----	----	2.711 + 0.014	----	----	8262 UNCH
NOV19	----	----	2.755 + 0.011	----	----	4732 UNCH
DEC19	----	----	2.901 + 0.004	----	----	4517 UNCH
JAN20	----	----	3.015 - 0.002	----	----	1823 UNCH



	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. & PT.	PRICE CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NPG FUT		HENRY HUB PENULTIMATE FUT						
FEB20	----	----	2.956	- 0.003	----	----	1695	UNCH
MAR20	----	----	2.798	- 0.006	----	----	1695	UNCH
APR20	----	----	2.500	- 0.005	----	----	1642	UNCH
MAY20	----	----	2.466	- 0.003	----	----	1642	UNCH
JUN20	----	----	2.515	- 0.003	----	----	1642	UNCH
JUL20	----	----	2.565	- 0.004	----	----	1642	UNCH
AUG20	----	----	2.575	- 0.001	----	----	1642	UNCH
SEP20	----	----	2.561	+ 0.002	----	----	1642	UNCH
OCT20	----	----	2.579	+ 0.002	----	----	1642	UNCH
NOV20	----	----	2.644	+ 0.003	----	----	1675	UNCH
DEC20	----	----	2.807	+ 0.009	----	----	1675	UNCH
JAN21	----	----	2.907	- 0.001	----	----	793	UNCH
FEB21	----	----	2.862	- 0.001	----	----	793	UNCH
MAR21	----	----	2.742	- 0.001	----	----	793	UNCH
APR21	----	----	2.497	- 0.004	----	----	773	UNCH
MAY21	----	----	2.465	- 0.004	----	----	773	UNCH
JUN21	----	----	2.495	- 0.004	----	----	773	UNCH
JUL21	----	----	2.528	- 0.004	----	----	773	UNCH
AUG21	----	----	2.542	- 0.004	----	----	773	UNCH
SEP21	----	----	2.535	- 0.004	----	----	773	UNCH
OCT21	----	----	2.558	- 0.004	----	----	773	UNCH
NOV21	----	----	2.622	- 0.006	----	----	793	UNCH
DEC21	----	----	2.772	- 0.006	----	----	793	UNCH
JAN22	----	----	2.882	- 0.011	----	----	352	UNCH
FEB22	----	----	2.838	- 0.011	----	----	352	UNCH
MAR22	----	----	2.753	- 0.013	----	----	352	UNCH
APR22	----	----	2.514	- 0.015	----	----	372	UNCH
MAY22	----	----	2.485	- 0.015	----	----	372	UNCH
JUN22	----	----	2.513	- 0.015	----	----	372	UNCH
JUL22	----	----	2.544	- 0.015	----	----	372	UNCH
AUG22	----	----	2.559	- 0.015	----	----	372	UNCH
SEP22	----	----	2.553	- 0.015	----	----	372	UNCH
OCT22	----	----	2.576	- 0.015	----	----	372	UNCH
NOV22	----	----	2.638	- 0.015	----	----	352	UNCH
DEC22	----	----	2.781	- 0.015	----	----	352	UNCH
JAN23	----	----	2.891	- 0.015	----	----	550	UNCH
FEB23	----	----	2.847	- 0.015	----	----	550	UNCH
MAR23	----	----	2.762	- 0.020	----	----	550	UNCH
APR23	----	----	2.530	- 0.029	----	----	540	UNCH
MAY23	----	----	2.515	- 0.029	----	----	540	UNCH
JUN23	----	----	2.545	- 0.029	----	----	540	UNCH
JUL23	----	----	2.579	- 0.029	----	----	540	UNCH
AUG23	----	----	2.599	- 0.029	----	----	540	UNCH
SEP23	----	----	2.605	- 0.029	----	----	540	UNCH
OCT23	----	----	2.635	- 0.029	----	----	540	UNCH
NOV23	----	----	2.702	- 0.029	----	----	550	UNCH
DEC23	----	----	2.850	- 0.029	----	----	550	UNCH
JAN24	----	----	2.960	- 0.029	----	----	1148	UNCH
FEB24	----	----	2.923	- 0.029	----	----	1148	UNCH
MAR24	----	----	2.853	- 0.029	----	----	1148	UNCH
APR24	----	----	2.631	- 0.029	----	----	1148	UNCH
MAY24	----	----	2.614	- 0.029	----	----	1148	UNCH
JUN24	----	----	2.643	- 0.029	----	----	1148	UNCH
JUL24	----	----	2.675	- 0.029	----	----	1148	UNCH
AUG24	----	----	2.694	- 0.029	----	----	1148	UNCH
SEP24	----	----	2.699	- 0.029	----	----	1148	UNCH
OCT24	----	----	2.728	- 0.029	----	----	1148	UNCH
NOV24	----	----	2.794	- 0.029	----	----	1148	UNCH
DEC24	----	----	2.944	- 0.029	----	----	1148	UNCH
JAN25	----	----	3.059	- 0.029	----	----	203	UNCH
FEB25	----	----	3.024	- 0.029	----	----	203	UNCH
MAR25	----	----	2.959	- 0.029	----	----	203	UNCH
APR25	----	----	2.739	- 0.029	----	----	203	UNCH
MAY25	----	----	2.721	- 0.029	----	----	203	UNCH
JUN25	----	----	2.750	- 0.029	----	----	203	UNCH
JUL25	----	----	2.782	- 0.029	----	----	203	UNCH
AUG25	----	----	2.801	- 0.029	----	----	203	UNCH
SEP25	----	----	2.805	- 0.029	----	----	203	UNCH
OCT25	----	----	2.836	- 0.029	----	----	203	UNCH
NOV25	----	----	2.902	- 0.029	----	----	203	UNCH
DEC25	----	----	3.054	- 0.029	----	----	203	UNCH
TOTAL						7825	172574	+ 3312
NHN FUT		HOUSTON SHIP CHANNEL BASIS						
DEC18	----	----	0.0700	- 0.0180	----	----	465	UNCH
JAN19	----	----	0.1520	- 0.0130	----	----	527	UNCH
FEB19	----	----	0.1480	- 0.0180	----	----	476	UNCH
MAR19	----	----	0.0880	- 0.0060	----	----	527	UNCH
APR19	----	----	0.1040	- 0.0030	----	----	510	UNCH
MAY19	----	----	0.1110	- 0.0030	----	----	527	UNCH
JUN19	----	----	0.1110	- 0.0030	----	----	510	UNCH
JUL19	----	----	0.1020	- 0.0010	----	----	527	UNCH
AUG19	----	----	0.0960	- 0.0020	----	----	527	UNCH
SEP19	----	----	0.0760	- 0.0020	----	----	510	UNCH
OCT19	----	----	0.0590	- 0.0020	----	----	527	UNCH
NOV19	----	----	0.0490	- 0.0050	----	----	510	UNCH
DEC19	----	----	0.0380	- 0.0030	----	----	527	UNCH
JAN20	----	----	0.0630	- 0.0060	----	----	279	UNCH
FEB20	----	----	0.0650	- 0.0070	----	----	261	UNCH
MAR20	----	----	0.0300	- 0.0030	----	----	279	UNCH
APR20	----	----	0.0320	UNCH	----	----	270	UNCH
MAY20	----	----	0.0140	+ 0.0010	----	----	279	UNCH
JUN20	----	----	0.0170	+ 0.0010	----	----	270	UNCH
JUL20	----	----	0.0060	UNCH	----	----	279	UNCH
AUG20	----	----	0.0090	+ 0.0010	----	----	279	UNCH
SEP20	----	----	0.0170	+ 0.0010	----	----	270	UNCH
OCT20	----	----	0.0480	+ 0.0010	----	----	279	UNCH
NOV20	----	----	0.0250	- 0.0010	----	----	270	UNCH
DEC20	----	----	0.0200	- 0.0010	----	----	279	UNCH
JAN21	----	----	0.0460	UNCH	----	----	155	UNCH
FEB21	----	----	0.0430	- 0.0010	----	----	140	UNCH
MAR21	----	----	0.0100	- 0.0010	----	----	155	UNCH
APR21	----	----	0.0110	UNCH	----	----	150	UNCH
MAY21	----	----	-0.0120	+ 0.0010	----	----	155	UNCH
JUN21	----	----	-0.0100	UNCH	----	----	150	UNCH
JUL21	----	----	0.0110	UNCH	----	----	155	UNCH
AUG21	----	----	0.0140	UNCH	----	----	155	UNCH

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PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. & PT.	PRICE CHGE	GLOBAL® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NHN FUT HOUSTON SHIP CHANNEL BASIS								
SEP21	----	----	0.0240	UNCH	----	----	150	UNCH
OCT21	----	----	0.0420	- 0.0010	----	----	155	UNCH
NOV21	----	----	0.0270	+ 0.0020	----	----	150	UNCH
DEC21	----	----	0.0260	+ 0.0020	----	----	155	UNCH
TOTAL	NHN FUT						11789	
JKM FUT LNG JAPAN KOREA MARKER PLATTS								
DEC18	----	----	10.480	UNCH	----	----	1240	UNCH
JAN19	----	----	10.770	- 0.380	----	----	755	UNCH
FEB19	----	----	10.750	- 0.375	----	----	300	UNCH
MAR19	----	----	10.250	- 0.250	----	----	300	UNCH
APR19	----	----	9.250	UNCH	----	----	325	UNCH
MAY19	----	----	8.725	+ 0.100	----	----	290	UNCH
JUN19	----	----	8.425	+ 0.050	----	----	965	UNCH
JUL19	----	----	8.425	UNCH	----	----	280	UNCH
AUG19	----	----	8.500	+ 0.050	----	----	280	UNCH
SEP19	----	----	8.575	+ 0.100	----	----	280	UNCH
OCT19	----	----	8.865	- 0.015	----	----	45	UNCH
NOV19	----	----	9.465	- 0.020	----	----	45	UNCH
DEC19	----	----	9.865	+ 0.030	----	----	45	UNCH
JAN20	----	----	10.215	UNCH	----	----	25	UNCH
FEB20	----	----	10.065	UNCH	----	----	25	UNCH
MAR20	----	----	9.865	UNCH	----	----	25	UNCH
APR20	----	----	8.260	+ 0.045	----	----	5	UNCH
MAY20	----	----	7.655	- 0.105	----	----	5	UNCH
JUN20	----	----	7.555	- 0.005	----	----	5	UNCH
JUL20	----	----	7.350	- 0.055	----	----	5	UNCH
AUG20	----	----	7.350	- 0.055	----	----	5	UNCH
SEP20	----	----	7.555	- 0.005	----	----	5	UNCH
OCT20	----	----	7.955	- 0.005	----	----	5	UNCH
NOV20	----	----	8.460	+ 0.145	----	----	5	UNCH
DEC20	----	----	9.115	+ 0.045	----	----	5	UNCH
TOTAL	JKM FUT						5270	
NF FUT MICHIGAN BASIS								
DEC18	----	----	0.0720	- 0.0450	----	----	285	UNCH
JAN19	----	----	0.0610	- 0.0390	----	----	155	UNCH
FEB19	----	----	0.1860	- 0.0790	----	----	140	UNCH
MAR19	----	----	0.1580	- 0.0640	----	----	155	UNCH
APR19	----	----	-0.0250	+ 0.0040	----	----	30	UNCH
MAY19	----	----	-0.1300	+ 0.0100	----	----	31	UNCH
JUN19	----	----	-0.2090	+ 0.0140	----	----	30	UNCH
JUL19	----	----	-0.1950	+ 0.0130	----	----	31	UNCH
AUG19	----	----	-0.1810	+ 0.0120	----	----	31	UNCH
SEP19	----	----	-0.2040	+ 0.0140	----	----	30	UNCH
OCT19	----	----	-0.2140	+ 0.0140	----	----	31	UNCH
NOV19	----	----	-0.1550	- 0.0210	----	----	120	UNCH
DEC19	----	----	-0.1400	- 0.0210	----	----	124	UNCH
JAN20	----	----	-0.1570	- 0.0210	----	----	124	UNCH
FEB20	----	----	-0.0860	- 0.0220	----	----	116	UNCH
MAR20	----	----	-0.2090	- 0.0180	----	----	124	UNCH
APR20	----	----	-0.0860	- 0.0040	----	----	120	UNCH
MAY20	----	----	-0.1590	- 0.0040	----	----	124	UNCH
JUN20	----	----	-0.2570	- 0.0030	----	----	120	UNCH
JUL20	----	----	-0.1920	- 0.0030	----	----	124	UNCH
AUG20	----	----	-0.1890	- 0.0030	----	----	124	UNCH
SEP20	----	----	-0.2440	- 0.0030	----	----	120	UNCH
OCT20	----	----	-0.2330	- 0.0020	----	----	124	UNCH
TOTAL	NF FUT						2413	
NL FUT NGPL MID-CONTINENT								
DEC18	----	----	-0.4520	- 0.0360	----	----	1177	UNCH
JAN19	----	----	-0.5090	- 0.0480	----	----	837	UNCH
FEB19	----	----	-0.5210	+ 0.0050	----	----	756	UNCH
MAR19	----	----	-0.6330	- 0.0260	----	----	837	UNCH
APR19	----	----	-0.7380	- 0.0010	----	----	840	UNCH
MAY19	----	----	-0.7100	+ 0.0230	----	----	868	UNCH
JUN19	----	----	-0.6870	+ 0.0110	----	----	840	UNCH
JUL19	----	----	-0.6180	+ 0.0090	----	----	868	UNCH
AUG19	----	----	-0.5540	+ 0.0070	----	----	868	UNCH
SEP19	----	----	-0.5720	+ 0.0080	----	----	840	UNCH
OCT19	----	----	-0.6260	+ 0.0090	----	----	1600	UNCH
NOV19	----	----	-0.5350	+ 0.0030	----	----	1812	UNCH
DEC19	----	----	-0.5180	+ 0.0020	----	----	1324	UNCH
JAN20	----	----	-0.4550	+ 0.0020	----	----	620	UNCH
FEB20	----	----	-0.4330	+ 0.0010	----	----	580	UNCH
MAR20	----	----	-0.5230	+ 0.0030	----	----	620	UNCH
TOTAL	NL FUT						15287	
PD FUT NGPL TEX /OK								
DEC18	----	----	-0.1660	- 0.0180	----	----	2405	UNCH
JAN19	----	----	-0.1620	- 0.0300	----	----	2091	UNCH
FEB19	----	----	-0.1410	- 0.0100	----	----	2028	UNCH
MAR19	----	----	-0.1490	- 0.0240	----	----	2091	UNCH
APR19	----	----	-0.1900	- 0.0090	----	----	2070	UNCH
MAY19	----	----	-0.1880	- 0.0100	----	----	2091	UNCH
JUN19	----	----	-0.2000	- 0.0100	----	----	2070	UNCH
JUL19	----	----	-0.2120	- 0.0120	----	----	2091	UNCH
AUG19	----	----	-0.2200	- 0.0120	----	----	2091	UNCH
SEP19	----	----	-0.2300	- 0.0120	----	----	2070	UNCH
OCT19	----	----	-0.2390	- 0.0140	----	----	1903	UNCH
NOV19	----	----	-0.2440	- 0.0140	----	----	1770	UNCH
DEC19	----	----	-0.2560	- 0.0140	----	----	1915	UNCH
JAN20	----	----	-0.2540	- 0.0150	----	----	620	UNCH
FEB20	----	----	-0.2540	- 0.0140	----	----	580	UNCH
MAR20	----	----	-0.2490	- 0.0140	----	----	620	UNCH
TOTAL	PD FUT						28506	
PE FUT NORTHERN NATURAL GAS DEMARCATION								
DEC18	----	----	0.2590	- 0.0220	----	----	8	UNCH
APR19	----	----	-0.3050	+ 0.0110	----	----	60	UNCH
MAY19	----	----	-0.5180	+ 0.0160	----	----	62	UNCH
JUN19	----	----	-0.5280	+ 0.0160	----	----	60	UNCH
JUL19	----	----	-0.3390	+ 0.0110	----	----	62	UNCH
AUG19	----	----	-0.3460	+ 0.0110	----	----	62	UNCH
SEP19	----	----	-0.4650	+ 0.0150	----	----	60	UNCH
OCT19	----	----	-0.4280	+ 0.0150	----	----	62	UNCH



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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
TOTAL PE FUT							436	
PF FUT NORTHEN NATURAL GAS VENTURA IOWA								
DEC18	----	----	0.6000 -	0.0580	----	----	20	UNCH
JAN19	----	----	0.9590 -	0.0110	----	----	20	UNCH
FEB19	----	----	0.8940 -	0.1340	----	----	20	UNCH
MAR19	----	----	0.2060 -	0.0020	----	----	20	UNCH
APR19	----	----	-0.1810 +	0.0050	----	----	180	UNCH
MAY19	----	----	-0.3870 +	0.0150	----	----	186	UNCH
JUN19	----	----	-0.4060 +	0.0180	----	----	180	UNCH
JUL19	----	----	-0.2700 +	0.0100	----	----	186	UNCH
AUG19	----	----	-0.2720 +	0.0110	----	----	186	UNCH
SEP19	----	----	-0.3600 +	0.0150	----	----	180	UNCH
OCT19	----	----	-0.2970 +	0.0110	----	----	186	UNCH
TOTAL PF FUT							1364	
XR FUT NORTHERN ROCKIES PIPE								
JAN19	----	----	4.425 +	0.367	----	----	31	UNCH
FEB19	----	----	4.016 +	0.350	----	----	28	UNCH
TOTAL XR FUT							59	
NR FUT NORTHWEST ROCKIES BASIS FUTURE								
DEC18	----	----	0.2720 +	0.1800	----	----	1767	UNCH
JAN19	----	----	0.1340 +	0.1190	----	----	1333	UNCH
FEB19	----	----	-0.1320 +	0.0990	----	----	1204	UNCH
MAR19	----	----	-0.4500 +	0.0480	----	----	1333	UNCH
APR19	----	----	-0.7040 +	0.0190	----	----	1320	UNCH
MAY19	----	----	-0.6800 +	0.0210	----	----	1364	UNCH
JUN19	----	----	-0.6410 +	0.0200	----	----	1320	UNCH
JUL19	----	----	-0.4370 +	0.0160	----	----	1364	UNCH
AUG19	----	----	-0.4320 +	0.0160	----	----	1364	UNCH
SEP19	----	----	-0.4580 +	0.0180	----	----	1320	UNCH
OCT19	----	----	-0.5590 +	0.0230	----	----	1364	UNCH
NOV19	----	----	-0.5150 +	0.0140	----	----	1170	UNCH
DEC19	----	----	-0.2990 +	0.0070	----	----	1209	UNCH
JAN20	----	----	-0.2910 +	0.0070	----	----	124	UNCH
FEB20	----	----	-0.4100 +	0.0110	----	----	116	UNCH
MAR20	----	----	-0.6000 +	0.0160	----	----	124	UNCH
APR20	----	----	-0.7170 +	0.0040	----	----	60	UNCH
MAY20	----	----	-0.7250 +	0.0040	----	----	62	UNCH
JUN20	----	----	-0.7200 +	0.0040	----	----	60	UNCH
JUL20	----	----	-0.4270 +	0.0010	----	----	62	UNCH
AUG20	----	----	-0.4240 +	0.0010	----	----	62	UNCH
SEP20	----	----	-0.4400 +	0.0010	----	----	60	UNCH
OCT20	----	----	-0.5180 +	0.0020	----	----	62	UNCH
NOV20	----	----	-0.4650 +	0.0270	----	----	60	UNCH
DEC20	----	----	-0.3830 +	0.0260	----	----	62	UNCH
TOTAL NR FUT							18346	
HP FUT NYMEX NATURAL GAS FUTURES								
DEC18	4.304	4.386B/4.304	4.272 +	0.234	1391	1382	22825 -	40
JAN19	----	----	4.291 +	0.248	91	2596	11778 +	894
FEB19	----	----	4.148 +	0.251	29	2803	14838 +	2589
MAR19	----	----	3.865 +	0.269	36	2660	14244 +	823
APR19	----	----	2.793 -	0.001	143	1123	9835 +	489
MAY19	----	2.677B/2.629A	2.667 +	0.015	----	1216	3794 +	451
JUN19	----	2.705B/2.657A	2.692 +	0.014	----	632	3199 +	490
JUL19	----	2.734B/2.694A	2.724 +	0.015	----	780	3223 +	662
AUG19	----	2.725B/2.693A	2.719 +	0.014	----	672	3330 +	552
SEP19	----	2.695B/2.673A	2.693 +	0.014	----	672	2376 +	566
OCT19	----	2.705B	2.711 +	0.014	----	672	2629 +	414
NOV19	----	----	2.755 +	0.011	----	602	1684 +	112
DEC19	----	----	2.901 +	0.004	----	568	1927 +	568
JAN20	----	----	3.015 -	0.002	----	27	1038 +	27
FEB20	----	----	2.956 -	0.003	----	27	1107 +	20
MAR20	----	----	2.798 -	0.006	----	27	1048 +	20
APR20	----	----	2.500 -	0.005	----	27	1280 +	27
MAY20	----	----	2.466 -	0.003	----	27	643 +	27
JUN20	----	----	2.515 -	0.003	----	27	643 +	27
JUL20	----	----	2.565 -	0.004	----	27	640 +	27
AUG20	----	----	2.575 -	0.001	----	27	640 +	27
SEP20	----	----	2.561 +	0.002	----	27	640 +	27
OCT20	----	----	2.579 +	0.002	----	27	654 +	18
NOV20	----	----	2.644 +	0.003	----	27	654 +	27
DEC20	----	----	2.807 +	0.009	----	27	817 +	27
JAN21	----	----	2.907 -	0.001	----	----	550	UNCH
FEB21	----	----	2.862 -	0.001	----	----	420	UNCH
MAR21	----	----	2.742 -	0.001	----	----	420	UNCH
APR21	----	----	2.497 -	0.004	----	----	437	UNCH
MAY21	----	----	2.465 -	0.004	----	----	437	UNCH
JUN21	----	----	2.495 -	0.004	----	----	438	UNCH
JUL21	----	----	2.528 -	0.004	----	----	437	UNCH
AUG21	----	----	2.542 -	0.004	----	----	437	UNCH
SEP21	----	----	2.535 -	0.004	----	----	437	UNCH
OCT21	----	----	2.558 -	0.004	----	----	437	UNCH
NOV21	----	----	2.622 -	0.006	----	----	421	UNCH
DEC21	----	----	2.772 -	0.006	----	----	421	UNCH
JAN22	----	----	2.882 -	0.011	----	----	178	UNCH
FEB22	----	----	2.838 -	0.011	----	----	178	UNCH
MAR22	----	----	2.753 -	0.013	----	----	178	UNCH
APR22	----	----	2.514 -	0.015	----	----	186	UNCH
MAY22	----	----	2.485 -	0.015	----	----	186	UNCH
JUN22	----	----	2.513 -	0.015	----	----	186	UNCH
JUL22	----	----	2.544 -	0.015	----	----	186	UNCH
AUG22	----	----	2.559 -	0.015	----	----	186	UNCH
SEP22	----	----	2.553 -	0.015	----	----	186	UNCH
OCT22	----	----	2.576 -	0.015	----	----	186	UNCH
NOV22	----	----	2.638 -	0.015	----	----	178	UNCH
DEC22	----	----	2.781 -	0.015	----	----	178	UNCH
JAN23	----	----	2.891 -	0.015	----	----	186	UNCH
FEB23	----	----	2.847 -	0.015	----	----	186	UNCH
MAR23	----	----	2.762 -	0.020	----	----	186	UNCH
APR23	----	----	2.530 -	0.029	----	----	186	UNCH
MAY23	----	----	2.515 -	0.029	----	----	186	UNCH
JUN23	----	----	2.545 -	0.029	----	----	186	UNCH
JUL23	----	----	2.579 -	0.029	----	----	186	UNCH
AUG23	----	----	2.599 -	0.029	----	----	186	UNCH
SEP23	----	----	2.605 -	0.029	----	----	186	UNCH
OCT23	----	----	2.635 -	0.029	----	----	186	UNCH

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PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. & PT.	PRICE CHGE	GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
HP FUT NYMEX NATURAL GAS FUTURES								
NOV23	----	----	2.702	- 0.029	----	----	186	UNCH
DEC23	----	----	2.850	- 0.029	----	----	186	UNCH
TOTAL HP FUT					1690	16702	115202 +	8871
8X FUT ONEOK OKLAHOMA NG BASIS								
DEC18	----	----	-1.3780	- 0.0400	----	----	62	UNCH
TOTAL 8X FUT							62	
PH FUT PANHANDLE BASIS FUTURE								
DEC18	----	----	-0.3730	- 0.0350	----	----	725	UNCH
JAN19	----	----	-0.3840	- 0.0250	----	----	217	UNCH
FEB19	----	----	-0.3850	- 0.0210	----	----	196	UNCH
MAR19	----	----	-0.6330	+ 0.0030	----	----	217	UNCH
APR19	----	----	-0.7310	+ 0.0400	----	----	360	UNCH
MAY19	----	----	-0.7560	+ 0.0610	----	----	372	UNCH
JUN19	----	----	-0.7100	+ 0.0490	----	----	360	UNCH
JUL19	----	----	-0.6170	+ 0.0510	----	----	372	UNCH
AUG19	----	----	-0.5360	+ 0.0510	----	----	372	UNCH
SEP19	----	----	-0.5760	+ 0.0500	----	----	360	UNCH
OCT19	----	----	-0.6190	+ 0.0510	----	----	372	UNCH
NOV19	----	----	-0.5360	+ 0.0100	----	----	120	UNCH
DEC19	----	----	-0.4810	+ 0.0070	----	----	124	UNCH
JAN20	----	----	-0.4790	+ 0.0060	----	----	62	UNCH
FEB20	----	----	-0.4710	+ 0.0060	----	----	58	UNCH
MAR20	----	----	-0.5200	+ 0.0080	----	----	62	UNCH
APR20	----	----	-0.5320	- 0.0010	----	----	121	UNCH
MAY20	----	----	-0.5890	UNCH	----	----	124	UNCH
JUN20	----	----	-0.5840	- 0.0010	----	----	121	UNCH
JUL20	----	----	-0.4920	- 0.0010	----	----	123	UNCH
AUG20	----	----	-0.5050	- 0.0010	----	----	123	UNCH
SEP20	----	----	-0.5180	UNCH	----	----	120	UNCH
OCT20	----	----	-0.5540	UNCH	----	----	123	UNCH
NOV20	----	----	-0.4150	- 0.0020	----	----	30	UNCH
DEC20	----	----	-0.3740	- 0.0030	----	----	30	UNCH
APR21	----	----	-0.4260	+ 0.0100	----	----	30	UNCH
MAY21	----	----	-0.4820	+ 0.0100	----	----	31	UNCH
JUN21	----	----	-0.4760	+ 0.0100	----	----	30	UNCH
JUL21	----	----	-0.3920	+ 0.0090	----	----	31	UNCH
AUG21	----	----	-0.4050	+ 0.0090	----	----	31	UNCH
SEP21	----	----	-0.4180	+ 0.0100	----	----	30	UNCH
OCT21	----	----	-0.4520	+ 0.0100	----	----	31	UNCH
TOTAL PH FUT							5478	
XH FUT PANHANDLE PIPE								
DEC18	----	----	3.899	+ 0.199	----	----	197	UNCH
TOTAL XH FUT							197	
PM FUT PERMIAN BASIS								
DEC18	----	----	-2.3260	- 0.2170	----	----	248	UNCH
JAN19	----	----	-1.9580	- 0.1400	----	----	186	UNCH
FEB19	----	----	-1.9520	- 0.1370	----	----	168	UNCH
MAR19	----	----	-2.2410	- 0.1700	----	----	186	UNCH
APR19	----	----	-1.8630	- 0.0030	----	----	120	UNCH
MAY19	----	----	-1.6910	- 0.0190	----	----	124	UNCH
JUN19	----	----	-1.4920	- 0.0180	----	----	120	UNCH
JUL19	----	----	-1.2700	- 0.0250	----	----	124	UNCH
AUG19	----	----	-1.2040	- 0.0230	----	----	124	UNCH
SEP19	----	----	-1.4240	- 0.0270	----	----	120	UNCH
OCT19	----	----	-1.2510	- 0.0200	----	----	124	UNCH
NOV19	----	----	-1.0170	UNCH	----	----	60	UNCH
DEC19	----	----	-0.7380	+ 0.0070	----	----	62	UNCH
JAN20	----	----	-0.6790	+ 0.0050	----	----	279	UNCH
FEB20	----	----	-0.6620	+ 0.0050	----	----	261	UNCH
MAR20	----	----	-0.7610	+ 0.0060	----	----	279	UNCH
APR20	----	----	-0.8620	+ 0.0020	----	----	270	UNCH
MAY20	----	----	-0.8710	+ 0.0020	----	----	279	UNCH
JUN20	----	----	-0.8680	+ 0.0010	----	----	270	UNCH
JUL20	----	----	-0.7080	+ 0.0010	----	----	279	UNCH
AUG20	----	----	-0.6840	+ 0.0010	----	----	279	UNCH
SEP20	----	----	-0.7410	UNCH	----	----	270	UNCH
OCT20	----	----	-0.7300	UNCH	----	----	279	UNCH
NOV20	----	----	-0.5150	+ 0.0030	----	----	270	UNCH
DEC20	----	----	-0.3270	+ 0.0020	----	----	279	UNCH
TOTAL PM FUT							5060	
NJ FUT SAN JUAN BASIS								
DEC18	----	----	-1.1590	- 0.0550	----	----	930	UNCH
JAN19	----	----	-0.8060	- 0.0410	----	----	186	UNCH
FEB19	----	----	-0.8260	- 0.0560	----	----	168	UNCH
MAR19	----	----	-1.2860	- 0.0810	----	----	186	UNCH
APR19	----	----	-1.1640	- 0.0110	----	----	1170	UNCH
MAY19	----	----	-1.0170	- 0.0120	----	----	1209	UNCH
JUN19	----	----	-1.0020	- 0.0120	----	----	1170	UNCH
JUL19	----	----	-0.8040	- 0.0140	----	----	713	UNCH
AUG19	----	----	-0.8160	- 0.0140	----	----	713	UNCH
SEP19	----	----	-0.7770	- 0.0130	----	----	690	UNCH
OCT19	----	----	-0.8610	- 0.0130	----	----	713	UNCH
NOV19	----	----	-0.7080	- 0.0120	----	----	180	UNCH
DEC19	----	----	-0.5640	- 0.0140	----	----	186	UNCH
APR20	----	----	-0.7460	- 0.0010	----	----	60	UNCH
MAY20	----	----	-0.7460	UNCH	----	----	62	UNCH
JUN20	----	----	-0.7330	- 0.0010	----	----	60	UNCH
JUL20	----	----	-0.5830	- 0.0020	----	----	62	UNCH
AUG20	----	----	-0.5620	- 0.0030	----	----	62	UNCH
SEP20	----	----	-0.5910	- 0.0020	----	----	60	UNCH
OCT20	----	----	-0.6930	- 0.0020	----	----	62	UNCH
TOTAL NJ FUT							8642	
XX FUT SAN JUAN PIPE								
DEC18	----	----	3.113	+ 0.179	----	----	72	UNCH
JAN19	----	----	3.485	+ 0.207	----	----	72	UNCH
FEB19	----	----	3.322	+ 0.195	----	----	72	UNCH
MAR19	----	----	2.579	+ 0.188	----	----	72	UNCH
TOTAL XX FUT							288	
8Z FUT SOUTH STAR TEX OKLHM KNS NG B								
DEC18	----	----	-0.3380	- 0.0400	----	----	10	UNCH

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PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL® VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
TOTAL 8Z FUT							10		
NK FUT	SUMAS BASIS								
DEC18	----	----	13.0000 + 1.0000		----	----	279	UNCH	
JAN19	----	----	8.5000 + 1.5000		----	----	372	UNCH	
FEB19	----	----	2.8000 - 0.2000		----	----	308	UNCH	
MAR19	----	----	0.7500 + 0.2500		----	----	341	UNCH	
APR19	----	----	-0.7380 + 0.0190		----	----	120	UNCH	
MAY19	----	----	-0.8180 + 0.0190		----	----	124	UNCH	
JUN19	----	----	-0.8170 + 0.0170		----	----	120	UNCH	
JUL19	----	----	-0.4000 + 0.0130		----	----	124	UNCH	
AUG19	----	----	-0.4230 + 0.0120		----	----	124	UNCH	
SEP19	----	----	-0.5030 + 0.0150		----	----	120	UNCH	
OCT19	----	----	-0.5900 + 0.0170		----	----	124	UNCH	
NOV19	----	----	-0.1890 - 0.0180		----	----	180	UNCH	
DEC19	----	----	0.3710 + 0.0190		----	----	186	UNCH	
JAN20	----	----	0.1520 - 0.0170		----	----	155	UNCH	
FEB20	----	----	-0.1410 - 0.0160		----	----	145	UNCH	
MAR20	----	----	-0.4200 - 0.0150		----	----	155	UNCH	
TOTAL NK FUT							2977		
TC FUT	TCO BASIS								
DEC18	----	----	-0.2130 - 0.0070		----	----	403	UNCH	
JAN19	----	----	-0.2190 - 0.0070		----	----	310	UNCH	
FEB19	----	----	-0.2230 - 0.0090		----	----	280	UNCH	
MAR19	----	----	-0.2500 - 0.0120		----	----	310	UNCH	
APR19	----	----	-0.2380 + 0.0190		----	----	360	UNCH	
MAY19	----	----	-0.2900 + 0.0080		----	----	372	UNCH	
JUN19	----	----	-0.3450 + 0.0080		----	----	360	UNCH	
JUL19	----	----	-0.4310 + 0.0070		----	----	372	UNCH	
AUG19	----	----	-0.4680 + 0.0070		----	----	372	UNCH	
SEP19	----	----	-0.4780 + 0.0070		----	----	360	UNCH	
OCT19	----	----	-0.4710 + 0.0060		----	----	372	UNCH	
NOV19	----	----	-0.3170 + 0.0040		----	----	120	UNCH	
DEC19	----	----	-0.2740 + 0.0050		----	----	124	UNCH	
JAN20	----	----	-0.3010 + 0.0050		----	----	124	UNCH	
FEB20	----	----	-0.2910 + 0.0050		----	----	116	UNCH	
MAR20	----	----	-0.3120 + 0.0040		----	----	124	UNCH	
TOTAL TC FUT							4479		
TX FUT	TETCO STX BASIS								
DEC18	----	----	0.0030 - 0.0130		----	----	62	UNCH	
TOTAL TX FUT							62		
NX FUT	TEXAS EASTERN ZONE M-3 BASIS								
DEC18	----	----	1.1050 + 0.0330		----	----	279	UNCH	
JAN19	----	----	4.0960 + 0.1090		----	----	310	UNCH	
FEB19	----	----	4.0230 + 0.1280		----	----	280	UNCH	
MAR19	----	----	0.4050 + 0.0170		----	----	310	UNCH	
APR19	----	----	-0.1900 - 0.0030		----	----	60	UNCH	
MAY19	----	----	-0.3750 - 0.0100		----	----	62	UNCH	
JUN19	----	----	-0.4120 - 0.0090		----	----	60	UNCH	
JUL19	----	----	-0.3850 - 0.0100		----	----	62	UNCH	
AUG19	----	----	-0.4070 - 0.0090		----	----	62	UNCH	
SEP19	----	----	-0.6030 - 0.0100		----	----	60	UNCH	
OCT19	----	----	-0.5980 - 0.0100		----	----	62	UNCH	
NOV19	----	----	-0.2140 - 0.0270		----	----	60	UNCH	
DEC19	----	----	0.5180 - 0.0090		----	----	62	UNCH	
JAN20	----	----	2.9680 - 0.0010		----	----	124	UNCH	
FEB20	----	----	2.8320 UNCH		----	----	116	UNCH	
MAR20	----	----	0.0720 - 0.0110		----	----	124	UNCH	
APR20	----	----	-0.2890 - 0.0130		----	----	60	UNCH	
MAY20	----	----	-0.4450 - 0.0110		----	----	62	UNCH	
JUN20	----	----	-0.4550 - 0.0110		----	----	60	UNCH	
JUL20	----	----	-0.4780 - 0.0100		----	----	62	UNCH	
AUG20	----	----	-0.4990 - 0.0100		----	----	62	UNCH	
SEP20	----	----	-0.6320 - 0.0090		----	----	60	UNCH	
OCT20	----	----	-0.5980 - 0.0100		----	----	62	UNCH	
NOV20	----	----	-0.2110 - 0.0040		----	----	60	UNCH	
DEC20	----	----	0.3480 - 0.0040		----	----	62	UNCH	
TOTAL NX FUT							2643		
9F FUT	TEXAS GAS ZONE1 NG BASIS								
DEC18	----	----	-0.1240 - 0.0140		----	----	484	UNCH	
TOTAL 9F FUT							484		
CZ FUT	TRANSCO ZONE 3 BASIS								
DEC18	----	----	-0.0200 + 0.0020		----	----	279	UNCH	
TOTAL CZ FUT							279		
NZ FUT	TRANSCO ZONE 6 BASIS								
DEC18	----	----	2.2360 + 0.1240		----	----	62	UNCH	
JAN19	----	----	7.0970 - 0.0810		----	----	62	UNCH	
FEB19	----	----	6.8250 + 0.0370		----	----	56	UNCH	
MAR19	----	----	1.1140 + 0.0360		----	----	62	UNCH	
TOTAL NZ FUT							242		
TZ6 FUT	TRANSCO ZONE 6 NON NY BASIS								
DEC18	----	----	1.2290 + 0.0230		----	----	248	UNCH	
JAN19	----	----	4.5940 + 0.0370		----	----	217	UNCH	
FEB19	----	----	4.5340 + 0.0500		----	----	196	UNCH	
MAR19	----	----	0.5900 + 0.0240		----	----	217	UNCH	
APR19	----	----	-0.1220 - 0.0090		----	----	210	UNCH	
MAY19	----	----	-0.2820 - 0.0020		----	----	217	UNCH	
JUN19	----	----	-0.3040 - 0.0010		----	----	210	UNCH	
JUL19	----	----	-0.2750 - 0.0020		----	----	217	UNCH	
AUG19	----	----	-0.2990 - 0.0010		----	----	217	UNCH	
SEP19	----	----	-0.5070 - 0.0040		----	----	210	UNCH	
OCT19	----	----	-0.4940 - 0.0030		----	----	217	UNCH	
NOV19	----	----	-0.0500 - 0.0400		----	----	210	UNCH	
DEC19	----	----	0.7280 - 0.0210		----	----	217	UNCH	
TOTAL TZ6 FUT							2803		
TR FUT	TRANSCO ZONE4 BASIS								
DEC18	----	----	0.0080 UNCH		----	----	341	UNCH	
JAN19	----	----	0.0220 + 0.0030		----	----	140	UNCH	
FEB19	----	----	0.0280 + 0.0040		----	----	139	UNCH	
MAR19	----	----	-0.0100 - 0.0010		----	----	139	UNCH	

TR FUT	TRANSCO ZONE4 BASIS	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
APR19	----	----	-0.0250 UNCH	----	----	138 UNCH
MAY19	----	----	-0.0420 UNCH	----	----	137 UNCH
JUN19	----	----	-0.0420 UNCH	----	----	136 UNCH
JUL19	----	----	-0.0450 UNCH	----	----	136 UNCH
AUG19	----	----	-0.0450 UNCH	----	----	135 UNCH
SEP19	----	----	-0.0480 UNCH	----	----	134 UNCH
OCT19	----	----	-0.0500 UNCH	----	----	134 UNCH
NOV19	----	----	-0.0420 UNCH	----	----	133 UNCH
DEC19	----	----	-0.0420 UNCH	----	----	132 UNCH
JAN20	----	----	-0.0400 UNCH	----	----	132 UNCH
FEB20	----	----	-0.0320 UNCH	----	----	131 UNCH
MAR20	----	----	-0.0400 UNCH	----	----	130 UNCH
APR20	----	----	-0.0410 UNCH	----	----	130 UNCH
MAY20	----	----	-0.0410 UNCH	----	----	129 UNCH
JUN20	----	----	-0.0440 UNCH	----	----	129 UNCH
JUL20	----	----	-0.0440 UNCH	----	----	128 UNCH
AUG20	----	----	-0.0410 UNCH	----	----	127 UNCH
SEP20	----	----	-0.0440 UNCH	----	----	127 UNCH
OCT20	----	----	-0.0410 UNCH	----	----	126 UNCH
NOV20	----	----	-0.0550 UNCH	----	----	125 UNCH
DEC20	----	----	-0.0550 UNCH	----	----	125 UNCH
TOTAL TR FUT						3513

UKG FUT	UK NBP NAT GAS CAL MTH FUT	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
DEC18	74.240	74.790B/71.620	72.270 - 2.330	105	----	105 - 20
JAN19	74.280	74.740B/72.000	72.590 - 1.970	15	----	45 + 10
FEB19	----	----	72.940 - 1.780	----	----	20 UNCH
MAR19	----	----	69.650 - 1.740	----	----	20 UNCH
APR19	----	----	62.430 - 0.830	5	----	5 UNCH
MAY19	----	----	59.050 - 1.060	5	----	5 UNCH
JUN19	----	----	56.470 - 1.060	5	----	5 UNCH
JUL19	----	----	56.320 - 1.060	5	----	5 UNCH
AUG19	----	----	56.500 - 1.010	5	----	5 UNCH
SEP19	----	----	59.160 - 0.940	5	----	5 UNCH
TOTAL UKG FUT				150		220 - 10

NW FUT	WAHA BASIS	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
DEC18	----	----	-2.4590 - 0.1990	----	----	248 UNCH
JAN19	----	----	-2.0400 - 0.1290	----	----	344 UNCH
FEB19	----	----	-2.0400 - 0.1380	----	----	326 UNCH
MAR19	----	----	-2.2780 - 0.1400	----	----	344 UNCH
APR19	----	----	-1.9070 + 0.0190	----	----	120 UNCH
MAY19	----	----	-1.7180 UNCH	----	----	124 UNCH
JUN19	----	----	-1.5430 + 0.0020	----	----	120 UNCH
JUL19	----	----	-1.2600 - 0.0080	----	----	124 UNCH
AUG19	----	----	-1.1810 - 0.0070	----	----	98 UNCH
SEP19	----	----	-1.3920 - 0.0100	----	----	94 UNCH
OCT19	----	----	-1.2750 - 0.0050	----	----	99 UNCH
NOV19	----	----	-0.9990 + 0.0130	----	----	63 UNCH
DEC19	----	----	-0.7220 + 0.0160	----	----	66 UNCH
JAN20	----	----	-0.6930 + 0.0130	----	----	67 UNCH
FEB20	----	----	-0.6680 + 0.0130	----	----	62 UNCH
MAR20	----	----	-0.7450 + 0.0160	----	----	67 UNCH
APR20	----	----	-0.8570 - 0.0030	----	----	66 UNCH
MAY20	----	----	-0.8600 - 0.0030	----	----	67 UNCH
JUN20	----	----	-0.8440 - 0.0030	----	----	65 UNCH
JUL20	----	----	-0.7340 - 0.0030	----	----	67 UNCH
AUG20	----	----	-0.6940 - 0.0030	----	----	67 UNCH
SEP20	----	----	-0.7530 - 0.0030	----	----	65 UNCH
OCT20	----	----	-0.7420 - 0.0030	----	----	31 UNCH
NOV20	----	----	-0.4950 + 0.0030	----	----	30 UNCH
DEC20	----	----	-0.3840 + 0.0020	----	----	31 UNCH
TOTAL NW FUT						2855

PETROLEUM FUTURES PRODUCTS

1W FUT	1% FUEL OIL (PLT) CARG CIF MED	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
NOV18	----	----	435.892 + 0.342	----	----	14 UNCH
DEC18	----	----	418.773 + 1.971	----	----	14 UNCH
TOTAL 1W FUT						28
1X FUT	1% FUEL OIL (PLT) CARG CIF NWE	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
NOV18	----	----	431.403 - 0.045	----	----	25 UNCH
DEC18	----	----	418.273 + 1.971	----	----	25 UNCH
TOTAL 1X FUT						50
FVB FUT	1.0% FUEL OIL (PLATTS) FOB NWE	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
JAN20	----	----	-4.931 + 0.210	----	----	5 UNCH
FEB20	----	----	-4.851 + 0.191	----	----	5 UNCH
MAR20	----	----	-4.672 + 0.161	----	----	5 UNCH
APR20	----	----	-4.876 + 0.111	----	----	5 UNCH
MAY20	----	----	-4.648 + 0.112	----	----	5 UNCH
JUN20	----	----	-4.371 + 0.133	----	----	5 UNCH
TOTAL FVB FUT						30
BOB FUT	3.5% FUEL OIL (PLATTS) FOB RDA	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
NOV18	----	----	-4.021 - 0.040	----	----	373 UNCH
DEC18	----	----	-5.489 + 0.134	----	15	501 + 15
JAN19	----	----	-6.716 + 0.089	----	6	185 + 1
FEB19	----	----	-7.638 + 0.056	----	6	180 + 1
MAR19	----	----	-8.503 + 0.067	----	6	180 + 1
APR19	----	----	-9.295 + 0.066	----	5	144 + 1
MAY19	----	----	-10.023 + 0.051	----	5	144 + 1

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	BOB FUT	3.5% FUEL OIL (PLATTS) FOB RDA	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
JUN19	----	----	----	-10.689 + 0.051	----	5	217 + 1
JUL19	----	----	----	-11.500 + 0.050	----	1	180 UNCH
AUG19	----	----	----	-12.627 + 0.062	----	1	170 UNCH
SEP19	----	----	----	-14.198 + 0.062	----	1	170 UNCH
OCT19	----	----	----	-16.167 + 0.072	----	1	100 + 1
NOV19	----	----	----	-17.788 + 0.082	----	1	100 + 1
DEC19	----	----	----	-19.239 + 0.111	----	1	100 + 1
JAN20	----	----	----	-20.325 + 0.112	----	----	77 UNCH
FEB20	----	----	----	-20.461 + 0.112	----	----	77 UNCH
MAR20	----	----	----	-20.460 + 0.101	----	----	77 UNCH
APR20	----	----	----	-20.349 + 0.111	----	----	79 UNCH
MAY20	----	----	----	-20.120 + 0.112	----	----	79 UNCH
JUN20	----	----	----	-19.844 + 0.132	----	----	79 UNCH
JUL20	----	----	----	-19.587 + 0.122	----	----	79 UNCH
AUG20	----	----	----	-19.284 + 0.134	----	----	79 UNCH
SEP20	----	----	----	-18.994 + 0.151	----	----	79 UNCH
OCT20	----	----	----	-18.725 + 0.142	----	----	98 UNCH
NOV20	----	----	----	-18.421 + 0.132	----	----	98 UNCH
DEC20	----	----	----	-18.151 + 0.123	----	----	98 UNCH
JAN21	----	----	----	-17.974 + 0.002	----	----	15 UNCH
FEB21	----	----	----	-17.707 - 0.027	----	----	15 UNCH
MAR21	----	----	----	-17.440 - 0.016	----	----	15 UNCH
APR21	----	----	----	-17.183 - 0.005	----	----	15 UNCH
MAY21	----	----	----	-16.922 + 0.024	----	----	15 UNCH
JUN21	----	----	----	-16.659 + 0.033	----	----	15 UNCH
JUL21	----	----	----	-16.432 + 0.043	----	----	15 UNCH
AUG21	----	----	----	-16.203 + 0.044	----	----	15 UNCH
SEP21	----	----	----	-16.005 + 0.053	----	----	15 UNCH
OCT21	----	----	----	-15.800 + 0.053	----	----	15 UNCH
NOV21	----	----	----	-15.651 + 0.053	----	----	15 UNCH
DEC21	----	----	----	-15.492 + 0.053	----	----	15 UNCH
TOTAL BOB FUT						54	3923 + 24
7D FUT		3.5% FUEL OIL CID MED					
NOV18	----	----	----	421.154 + 0.914	----	----	55 UNCH
DEC18	----	----	----	397.040 + 1.831	----	----	15 UNCH
JAN19	----	----	----	392.268 + 1.552	----	----	9 UNCH
FEB19	----	----	----	387.241 + 1.279	----	----	9 UNCH
MAR19	----	----	----	382.475 + 1.279	----	----	9 UNCH
APR19	----	----	----	378.429 + 1.154	----	----	4 UNCH
MAY19	----	----	----	373.612 + 0.987	----	----	4 UNCH
JUN19	----	----	----	368.752 + 0.797	----	----	4 UNCH
JUL19	----	----	----	364.116 + 0.608	----	----	4 UNCH
AUG19	----	----	----	356.068 + 0.611	----	----	4 UNCH
SEP19	----	----	----	345.193 + 0.486	----	----	4 UNCH
OCT19	----	----	----	331.943 + 0.486	----	----	4 UNCH
NOV19	----	----	----	320.943 + 0.486	----	----	4 UNCH
DEC19	----	----	----	311.818 + 0.611	----	----	4 UNCH
TOTAL 7D FUT							133
63 FUT		3.5% FUEL OIL RDAM VS FOB MED BALM					
13NOV18	----	----	----	-1.607 + 1.108	----	----	10 UNCH
15NOV18	----	----	----	-1.000 + 1.292	----	----	30 UNCH
TOTAL 63 FUT							40
EOB FUT		ARGUS GASOLINE NWE CRACK SPR					
NOV18	----	----	----	0.972 + 0.265	----	----	15 UNCH
DEC18	----	----	----	-0.543 + 0.838	----	----	10 UNCH
OCT19	----	----	----	1.769 + 0.420	----	----	10 UNCH
NOV19	----	----	----	0.927 + 0.364	----	----	5 UNCH
DEC19	----	----	----	0.555 + 0.338	----	----	5 UNCH
TOTAL EOB FUT							45
3NA FUT		ARGUS PROPANE FAR EAST INDEX VS. JA					
JAN19	----	----	----	-36.875 + 3.250	----	----	2 UNCH
FEB19	----	----	----	-43.250 + 2.750	----	----	2 UNCH
MAR19	----	----	----	-58.125 + 2.250	----	----	2 UNCH
TOTAL 3NA FUT							6
5C FUT		CHICAGO ULSD PL VS HO SPR					
NOV18	----	----	----	0.0104 + 0.0014	----	----	210 UNCH
DEC18	----	----	----	-0.0712 UNCH	----	----	126 UNCH
JAN19	----	----	----	-0.0037 - 0.0002	----	----	52 UNCH
FEB19	----	----	----	-0.0037 - 0.0002	----	----	52 UNCH
MAR19	----	----	----	-0.0100 UNCH	----	----	77 UNCH
APR19	----	----	----	-0.0011 + 0.0001	----	----	67 UNCH
MAY19	----	----	----	-0.0011 + 0.0001	----	----	67 UNCH
JUN19	----	----	----	-0.0011 + 0.0001	----	----	67 UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
5C FUT	CHICAGO ULSD PL VS HO SPR							
JUL19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
AUG19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
SEP19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
OCT19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
NOV19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
DEC19	----	----	-0.0011 + 0.0001		----	----	67	UNCH
TOTAL 5C FUT							1120	
EWN FUT	E/W NAPHTHA JAPAN CF-CARGOS CIF NWE							
NOV18	----	----	22.066 + 0.961		----	----	258	UNCH
DEC18	----	----	21.625 + 0.625		----	----	200	UNCH
JAN19	----	----	21.125 + 0.250		----	----	152	UNCH
FEB19	----	----	20.500 + 0.500		----	----	157	UNCH
MAR19	----	----	20.125 + 0.500		----	----	157	UNCH
APR19	----	----	20.000 + 0.250		----	----	21	UNCH
MAY19	----	----	20.125 + 0.625		----	----	15	UNCH
JUN19	----	----	20.125 + 0.625		----	----	15	UNCH
JUL19	----	----	20.250 + 0.625		----	----	6	UNCH
AUG19	----	----	20.250 + 0.500		----	----	6	UNCH
SEP19	----	----	20.250 + 0.250		----	----	6	UNCH
OCT19	----	----	20.375 + 0.125		----	----	23	UNCH
NOV19	----	----	20.625 + 0.125		----	----	23	UNCH
DEC19	----	----	20.750 + 0.125		----	----	23	UNCH
TOTAL EWN FUT							1062	
EW FUT	EAST/WEST FUEL OIL SPREAD							
JAN19	----	----	40.00 + 0.25		----	----	1	UNCH
FEB19	----	----	37.58 + 0.08		----	----	1	UNCH
MAR19	----	----	37.20 - 0.05		----	----	1	UNCH
APR19	----	----	37.70 + 0.08		----	----	4	UNCH
MAY19	----	----	37.30 + 0.05		----	----	4	UNCH
JUN19	----	----	36.95 + 0.10		----	----	4	UNCH
JUL19	----	----	37.30 - 0.05		----	----	4	UNCH
AUG19	----	----	39.55 - 0.05		----	----	4	UNCH
SEP19	----	----	42.30 - 0.05		----	----	4	UNCH
OCT19	----	----	44.55 - 0.05		----	----	1	UNCH
NOV19	----	----	46.80 - 0.05		----	----	1	UNCH
DEC19	----	----	47.55 - 0.05		----	----	1	UNCH
JAN20	----	----	47.30 - 0.05		----	----	1	UNCH
FEB20	----	----	46.55 - 0.05		----	----	1	UNCH
MAR20	----	----	45.80 - 0.05		----	----	1	UNCH
APR20	----	----	45.88 - 0.08		----	----	1	UNCH
MAY20	----	----	45.33 - 0.12		----	----	1	UNCH
JUN20	----	----	44.40 - 0.15		----	----	1	UNCH
JUL20	----	----	44.57 - 0.16		----	----	1	UNCH
AUG20	----	----	44.50 - 0.29		----	----	1	UNCH
SEP20	----	----	44.42 - 0.42		----	----	1	UNCH
OCT20	----	----	44.47 - 0.43		----	----	1	UNCH
NOV20	----	----	44.39 - 0.43		----	----	1	UNCH
DEC20	----	----	44.31 - 0.44		----	----	1	UNCH
TOTAL EW FUT							42	
EWG FUT	EAST-WST GASOLINE SPREAD PLATTS/ARG							
NOV18	----	----	0.136 + 0.218		----	----	2287	UNCH
DEC18	----	----	1.625 + 0.074		----	----	2235	UNCH
JAN19	----	----	1.705 + 0.105		----	----	625	UNCH
FEB19	----	----	1.615 + 0.030		----	----	625	UNCH
MAR19	----	----	1.520 - 0.040		----	----	750	UNCH
APR19	----	----	-3.398 - 0.051		----	----	800	UNCH
MAY19	----	----	-3.578 - 0.036		----	----	800	UNCH
JUN19	----	----	-3.717 - 0.079		----	----	800	UNCH
JUL19	----	----	-3.422 - 0.065		----	----	100	UNCH
AUG19	----	----	-3.172 - 0.029		----	----	100	UNCH
SEP19	----	----	-2.722 - 0.005		----	----	100	UNCH
TOTAL EWG FUT							9222	
A5 FUT	EIA FLAT TAX ONHWAY DIESEL							
NOV18	----	----	3.2436 - 0.0001		----	----	269	UNCH
DEC18	----	----	3.1127 - 0.0016		----	----	317	UNCH
JAN19	----	----	3.1450 - 0.0005		----	----	117	UNCH
FEB19	----	----	3.1321 - 0.0014		----	----	75	UNCH
MAR19	----	----	3.1272 - 0.0019		----	----	103	UNCH
APR19	----	----	3.1196 - 0.0022		----	----	87	UNCH
MAY19	----	----	3.1179 - 0.0028		----	----	63	UNCH
JUN19	----	----	3.1235 - 0.0036		----	----	67	UNCH
JUL19	----	----	3.1324 - 0.0042		----	----	63	UNCH
AUG19	----	----	3.1064 - 0.0048		----	----	45	UNCH

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ENERGY FUTURES PRODUCTS

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A5 FUT	EIA FLAT TAX ONHWAY DIESEL							
SEP19	----	----	3.1151 - 0.0055		----	----	60	UNCH
OCT19	----	----	3.1229 - 0.0059		----	----	54	UNCH
NOV19	----	----	3.1243 - 0.0056		----	----	58	UNCH
DEC19	----	----	3.1029 - 0.0054		----	----	54	UNCH
JAN20	----	----	3.1380 - 0.0056		----	----	31	UNCH
FEB20	----	----	3.1534 - 0.0066		----	----	31	UNCH
MAR20	----	----	3.1760 - 0.0082		----	----	31	UNCH
APR20	----	----	3.1690 - 0.0082		----	----	31	UNCH
MAY20	----	----	3.2099 - 0.0082		----	----	31	UNCH
TOTAL A5 FUT							1587	
JE FUT	EIA FLAT TAX US RETAIL GASOLINE							
NOV18	----	----	2.6068 + 0.0048		----	----	33	UNCH
DEC18	----	----	2.4532 + 0.0218		----	----	33	UNCH
JAN19	----	----	2.4644 + 0.0224		----	----	7	UNCH
FEB19	----	----	2.4850 + 0.0230		----	----	7	UNCH
MAR19	----	----	2.6838 + 0.0212		----	----	7	UNCH
APR19	----	----	2.6961 + 0.0199		----	----	7	UNCH
MAY19	----	----	2.6973 + 0.0187		----	----	7	UNCH
JUN19	----	----	2.6900 + 0.0178		----	----	7	UNCH
TOTAL JE FUT							108	
ENS FUT	EUR1%FUEL OIL FOB MED-EUR1% FOB NWE							
NOV18	----	----	9.261 UNCH		----	----	20	UNCH
DEC18	----	----	8.750 + 0.250		----	----	20	UNCH
JAN19	----	----	8.000 UNCH		----	----	10	UNCH
FEB19	----	----	7.250 UNCH		----	----	10	UNCH
MAR19	----	----	7.250 UNCH		----	----	10	UNCH
TOTAL ENS FUT							70	
EFF FUT	EUR3.5%FUEL OIL CARGO FOB MED BALMO							
08NOV18	----	----	400.777 + 1.153		----	----	5	UNCH
13NOV18	----	----	397.122 + 1.401		----	----	42	UNCH
TOTAL EFF FUT							47	
KR FUT	EURO 3.5% FUEL OIL RDAM BALMO							
05NOV18	----	----	406.948 + 0.205		----	----	10	UNCH
06NOV18	----	----	405.393 + 0.217		----	----	5	UNCH
09NOV18	----	----	401.466 + 0.257		----	----	105	UNCH
12NOV18	----	----	400.297 + 0.274		----	----	5	UNCH
13NOV18	----	----	398.729 + 0.293		----	----	43	UNCH
14NOV18	----	----	398.535 + 0.316		----	----	10	UNCH
TOTAL KR FUT							178	
FK FUT	EURO 3.5% FUEL OIL SPREAD							
NOV18	----	----	-0.92 + 0.71		----	----	23	UNCH
DEC18	----	----	-6.50 + 0.05		----	----	23	UNCH
TOTAL FK FUT							46	
ET FUT	EURO DIESEL 10PPM VS ICE							
NOV18	----	----	10.78 - 1.18		----	----	22	UNCH
DEC18	----	----	2.67 - 0.08		----	----	22	UNCH
JAN19	----	----	-0.44 - 0.27		----	----	20	UNCH
FEB19	----	----	-0.25 - 0.13		----	----	20	UNCH
MAR19	----	----	-0.29 - 0.25		----	----	20	UNCH
TOTAL ET FUT							104	
EPN FUT	EURO PPNE CIFARG VS NAPHTHA NWE SW							
NOV18	----	----	-58.170 + 2.171		----	----	318	UNCH
DEC18	----	----	-53.000 + 4.000		----	----	222	UNCH
JAN19	----	----	-56.750 + 4.000		----	6	238	- 2
FEB19	----	----	-62.250 + 4.750		----	6	228	- 2
MAR19	----	----	-77.500 + 4.250		----	6	256	- 2
APR19	----	----	-90.000 + 4.000		----	----	59	UNCH
MAY19	----	----	-95.500 + 3.250		----	----	59	UNCH
JUN19	----	----	-96.000 + 2.750		----	----	59	UNCH
JUL19	----	----	-93.000 + 3.000		----	----	45	UNCH
AUG19	----	----	-88.750 + 3.000		----	----	45	UNCH
SEP19	----	----	-84.500 + 3.000		----	----	45	UNCH
OCT19	----	----	-80.250 + 3.000		----	----	72	UNCH
NOV19	----	----	-75.750 + 3.000		----	----	72	UNCH
DEC19	----	----	-71.000 + 3.250		----	----	72	UNCH
JAN20	----	----	-66.250 + 7.500		----	----	3	UNCH
FEB20	----	----	-70.750 + 6.000		----	----	3	UNCH
MAR20	----	----	-79.000 + 6.500		----	----	3	UNCH
TOTAL EPN FUT						18	1799	- 6
UF FUT	EUROPE 1% FUEL OIL NWE CAL							
NOV18	----	----	414.30 + 0.35		----	----	39	UNCH
DEC18	----	----	397.27 + 1.72		----	----	39	UNCH
JUN19	----	----	373.76 + 0.82		----	----	60	UNCH

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UF FUT	EUROPE 1% FUEL OIL NWE CAL						
DEC19	----	----	390.18 + 1.45	----	----	60	UNCH
TOTAL UF FUT						198	
UH FUT	EUROPE 1% FUEL OIL RDAM CAL						
OCT19	----	----	379.30 + 1.20	----	----	1	UNCH
NOV19	----	----	385.55 + 0.70	----	----	1	UNCH
DEC19	----	----	385.18 + 1.45	----	----	1	UNCH
TOTAL UH FUT						3	
UI FUT	EUROPE 3.5% FUEL OIL MED CAL						
NOV18	----	----	408.49 + 0.89	----	----	97	UNCH
DEC18	----	----	384.40 + 1.80	----	----	16	UNCH
JAN19	----	----	379.63 + 1.52	----	----	10	UNCH
FEB19	----	----	374.60 + 1.24	----	----	10	UNCH
MAR19	----	----	369.83 + 1.24	----	----	10	UNCH
APR19	----	----	365.79 + 1.12	----	----	5	UNCH
MAY19	----	----	360.97 + 0.95	----	----	5	UNCH
JUN19	----	----	356.11 + 0.76	----	----	5	UNCH
JUL19	----	----	351.47 + 0.57	----	----	4	UNCH
AUG19	----	----	343.43 + 0.58	----	----	4	UNCH
SEP19	----	----	332.55 + 0.45	----	----	4	UNCH
OCT19	----	----	319.30 + 0.45	----	----	4	UNCH
NOV19	----	----	308.30 + 0.45	----	----	4	UNCH
DEC19	----	----	299.18 + 0.58	----	----	4	UNCH
TOTAL UI FUT						182	
UV FUT	EUROPE 3.5% FUEL OIL RDAM CAL						
NOV18	----	----	409.41 + 0.19	----	----	844	UNCH
DEC18	----	----	390.90 + 1.75	----	28	1699 + 14	
JAN19	----	----	384.18 + 1.52	----	20	627 - 20	
FEB19	----	----	379.15 + 1.24	----	35	415 + 15	
MAR19	----	----	374.39 + 1.24	----	25	442 + 6	
APR19	----	----	369.72 + 1.12	----	----	299	UNCH
MAY19	----	----	364.89 + 0.95	----	----	341	UNCH
JUN19	----	----	359.94 + 0.76	----	25	453 + 25	
JUL19	----	----	353.85 + 0.57	----	----	214	UNCH
AUG19	----	----	345.80 + 0.58	----	----	296	UNCH
SEP19	----	----	334.93 + 0.45	----	----	316	UNCH
OCT19	----	----	321.43 + 0.45	----	----	362	UNCH
NOV19	----	----	310.43 + 0.45	----	20	240	UNCH
DEC19	----	----	300.43 + 0.58	----	20	582 + 20	
JAN20	----	----	292.93 + 0.58	----	----	486	UNCH
FEB20	----	----	291.43 + 0.45	----	----	180	UNCH
MAR20	----	----	290.80 + 0.33	----	----	365	UNCH
APR20	----	----	290.80 + 0.33	----	----	288	UNCH
MAY20	----	----	291.43 + 0.33	----	----	269	UNCH
JUN20	----	----	292.43 + 0.33	----	----	248	UNCH
JUL20	----	----	293.43 + 0.20	----	----	66	UNCH
AUG20	----	----	294.68 + 0.20	----	----	66	UNCH
SEP20	----	----	295.93 + 0.20	----	----	66	UNCH
OCT20	----	----	297.05 + 0.08	----	----	26	UNCH
NOV20	----	----	298.30 - 0.05	----	----	26	UNCH
DEC20	----	----	299.55 - 0.18	----	----	86	UNCH
DEC21	----	----	311.50 - 1.25	----	----	10	UNCH
TOTAL UV FUT					173	9312 + 60	
UJ FUT	EUROPE JET KERO NWE CAL						
NOV18	----	----	691.07 + 0.26	----	----	3	UNCH
DEC18	----	----	675.77 - 2.13	----	----	3	UNCH
JAN19	----	----	673.98 - 2.69	----	----	1	UNCH
FEB19	----	----	674.76 - 3.13	----	----	1	UNCH
MAR19	----	----	672.88 - 3.25	----	----	1	UNCH
APR19	----	----	673.35 - 3.59	----	----	1	UNCH
MAY19	----	----	673.42 - 3.50	----	----	1	UNCH
JUN19	----	----	674.15 - 3.66	----	----	1	UNCH
JUL19	----	----	676.22 - 3.50	----	----	3	UNCH
AUG19	----	----	678.70 - 3.68	----	----	3	UNCH
SEP19	----	----	681.36 - 3.75	----	----	3	UNCH
OCT19	----	----	683.10 - 3.81	----	----	3	UNCH
NOV19	----	----	683.58 - 3.82	----	----	3	UNCH
DEC19	----	----	684.52 - 3.82	----	----	3	UNCH
TOTAL UJ FUT						30	
UN FUT	EUROPE NAPHTHA CAL						
NOV18	----	----	528.01 + 3.18	----	----	1041	UNCH
DEC18	----	----	524.19 + 6.64	----	25	638 + 15	
JAN19	----	----	526.20 + 6.24	----	17	464 + 5	
FEB19	----	----	526.46 + 5.55	----	12	218 - 1	

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UN FUT	EUROPE NAPHTHA CAL	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
MAR19	----	----	525.69 + 4.80	----	7	138 - 2	
APR19	----	----	524.29 + 4.73	----	1	314 UNCH	
MAY19	----	----	523.39 + 4.62	----	1	141 UNCH	
JUN19	----	----	522.70 + 4.58	----	1	150 UNCH	
JUL19	----	----	522.16 + 4.35	----	----	94 UNCH	
AUG19	----	----	522.00 + 4.44	----	----	78 UNCH	
SEP19	----	----	521.79 + 4.41	----	----	80 UNCH	
OCT19	----	----	521.35 + 4.38	----	----	92 UNCH	
NOV19	----	----	520.97 + 4.48	----	----	74 UNCH	
DEC19	----	----	520.36 + 4.41	----	----	97 UNCH	
JAN20	----	----	519.53 + 4.38	----	----	15 UNCH	
FEB20	----	----	518.36 + 4.19	----	----	15 UNCH	
MAR20	----	----	516.61 + 4.06	----	----	15 UNCH	
APR20	----	----	514.35 + 3.65	----	----	1 UNCH	
MAY20	----	----	512.78 + 3.50	----	----	1 UNCH	
JUN20	----	----	511.29 + 3.18	----	----	1 UNCH	
JUL20	----	----	510.13 + 2.61	----	----	1 UNCH	
AUG20	----	----	509.43 + 2.37	----	----	1 UNCH	
SEP20	----	----	508.97 + 2.22	----	----	1 UNCH	
OCT20	----	----	508.81 + 2.49	----	----	1 UNCH	
NOV20	----	----	508.32 + 2.58	----	----	1 UNCH	
DEC20	----	----	507.63 + 2.50	----	----	1 UNCH	
TOTAL UN FUT					64	3673 + 17	
KZ FUT	EUROPEAN NAPHTHA BALMO						
02NOV18	----	----	525.997 + 3.330	----	----	19 UNCH	
05NOV18	----	----	524.084 + 3.496	----	----	65 UNCH	
06NOV18	----	----	521.918 + 3.681	----	----	23 UNCH	
07NOV18	----	----	520.260 + 3.885	----	----	23 UNCH	
12NOV18	----	----	518.146 + 4.662	----	----	25 UNCH	
13NOV18	----	----	517.209 + 4.994	----	----	9 UNCH	
TOTAL KZ FUT						164	
EN FUT	EUROPEAN NAPHTHA CRACK SPREAD						
NOV18	----	----	-9.17 + 0.29	----	----	2677 + 56	
DEC18	----	----	-8.15 + 0.61	----	305	3508 + 216	
JAN19	----	----	-8.09 + 0.55	----	59	1427 - 30	
FEB19	----	----	-8.19 + 0.48	----	59	1464 - 30	
MAR19	----	----	-8.40 + 0.41	----	59	1466 - 30	
APR19	----	----	-8.61 + 0.42	----	----	529 UNCH	
MAY19	----	----	-8.68 + 0.42	----	75	577 - 9	
JUN19	----	----	-8.64 + 0.45	----	----	421 UNCH	
JUL19	----	----	-8.55 + 0.45	----	----	514 UNCH	
AUG19	----	----	-8.43 + 0.47	----	----	514 UNCH	
SEP19	----	----	-8.31 + 0.49	----	----	514 UNCH	
OCT19	----	----	-8.21 + 0.49	----	----	308 UNCH	
NOV19	----	----	-8.14 + 0.51	----	----	308 UNCH	
DEC19	----	----	-8.08 + 0.52	----	----	308 UNCH	
JAN20	----	----	-8.08 + 0.51	----	----	234 UNCH	
FEB20	----	----	-8.11 + 0.51	----	----	234 UNCH	
MAR20	----	----	-8.21 + 0.51	----	----	234 UNCH	
APR20	----	----	-8.35 + 0.47	----	----	219 UNCH	
MAY20	----	----	-8.40 + 0.45	----	----	219 UNCH	
JUN20	----	----	-8.45 + 0.44	----	----	219 UNCH	
JUL20	----	----	-8.48 + 0.38	----	----	219 UNCH	
AUG20	----	----	-8.45 + 0.37	----	----	219 UNCH	
SEP20	----	----	-8.41 + 0.37	----	----	219 UNCH	
OCT20	----	----	-8.34 + 0.41	----	----	219 UNCH	
NOV20	----	----	-8.28 + 0.43	----	----	219 UNCH	
DEC20	----	----	-8.29 + 0.43	----	----	219 UNCH	
JAN21	----	----	-7.80 UNCH	----	----	69 UNCH	
FEB21	----	----	-7.80 UNCH	----	----	69 UNCH	
MAR21	----	----	-7.80 UNCH	----	----	69 UNCH	
APR21	----	----	-7.80 UNCH	----	----	69 UNCH	
MAY21	----	----	-7.80 UNCH	----	----	69 UNCH	
JUN21	----	----	-7.80 UNCH	----	----	69 UNCH	
JUL21	----	----	-7.80 UNCH	----	----	69 UNCH	
AUG21	----	----	-7.80 UNCH	----	----	69 UNCH	
SEP21	----	----	-7.80 UNCH	----	----	69 UNCH	
OCT21	----	----	-7.80 UNCH	----	----	69 UNCH	
NOV21	----	----	-7.80 UNCH	----	----	69 UNCH	
DEC21	----	----	-7.80 UNCH	----	----	69 UNCH	
TOTAL EN FUT					557	18036 + 173	
FS FUT	FUEL OIL CARGOES VS.BARGES						
NOV18	----	----	4.89 + 0.17	----	----	70 UNCH	
DEC18	----	----	6.38 - 0.03	----	----	70 UNCH	

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PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBEX OPEN		GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
FS FUT	FUEL	OIL	CARGOES	VS.	BARGES				
JAN19		----	----		7.70 - 0.10	----	----	53	UNCH
FEB19		----	----		8.35 - 0.10	----	----	53	UNCH
MAR19		----	----		9.44 + 0.19	----	----	53	UNCH
APR19		----	----		10.60 + 0.29	----	----	34	UNCH
MAY19		----	----		11.81 - 0.00	----	----	34	UNCH
JUN19		----	----		13.81 + 0.06	----	----	34	UNCH
JUL19		----	----		22.25 + 0.25	----	----	29	UNCH
AUG19		----	----		30.25 + 0.50	----	----	29	UNCH
SEP19		----	----		44.13 + 0.63	----	----	29	UNCH
OCT19		----	----		62.88 + 0.75	----	----	10	UNCH
NOV19		----	----		80.13 + 0.25	----	----	10	UNCH
DEC19		----	----		89.75 + 0.88	----	----	10	UNCH
JAN20		----	----		97.75 + 0.63	----	----	8	UNCH
FEB20		----	----		99.13 + 0.50	----	----	8	UNCH
MAR20		----	----		100.25 + 0.38	----	----	8	UNCH
APR20		----	----		98.25 UNCH	----	----	8	UNCH
MAY20		----	----		98.25 UNCH	----	----	8	UNCH
JUN20		----	----		98.25 UNCH	----	----	8	UNCH
JUL20		----	----		93.25 UNCH	----	----	8	UNCH
AUG20		----	----		93.25 UNCH	----	----	8	UNCH
SEP20		----	----		93.25 UNCH	----	----	8	UNCH
OCT20		----	----		88.25 UNCH	----	----	8	UNCH
NOV20		----	----		88.25 UNCH	----	----	8	UNCH
DEC20		----	----		88.25 UNCH	----	----	8	UNCH
JAN21		----	----		88.53 + 0.29	----	----	5	UNCH
FEB21		----	----		88.25 UNCH	----	----	5	UNCH
MAR21		----	----		86.92 UNCH	----	----	5	UNCH
APR21		----	----		85.58 UNCH	----	----	5	UNCH
MAY21		----	----		84.25 UNCH	----	----	5	UNCH
JUN21		----	----		84.08 UNCH	----	----	5	UNCH
JUL21		----	----		84.17 UNCH	----	----	5	UNCH
AUG21		----	----		84.25 UNCH	----	----	5	UNCH
SEP21		----	----		83.33 UNCH	----	----	5	UNCH
OCT21		----	----		82.42 UNCH	----	----	5	UNCH
NOV21		----	----		81.50 UNCH	----	----	5	UNCH
DEC21		----	----		81.41 + 0.07	----	----	5	UNCH
TOTAL FS FUT								674	
FO FUT	FUEL	OIL	CRACK	VS	ICE				
NOV18		----	----		-4.02 - 0.04	----	----	1291	UNCH
DEC18		----	----		-5.49 + 0.13	----	57	1195 + 14	
JAN19		----	----		-6.72 + 0.09	----	----	476	UNCH
FEB19		----	----		-7.64 + 0.06	----	----	395	UNCH
MAR19		----	----		-8.50 + 0.07	----	----	395	UNCH
APR19		----	----		-9.30 + 0.07	----	----	836	UNCH
MAY19		----	----		-10.02 + 0.05	----	----	836	UNCH
JUN19		----	----		-10.69 + 0.05	----	----	836	UNCH
JUL19		----	----		-11.50 + 0.05	----	----	278	UNCH
AUG19		----	----		-12.63 + 0.06	----	----	278	UNCH
SEP19		----	----		-14.20 + 0.06	----	----	278	UNCH
OCT19		----	----		-16.17 + 0.07	----	----	215	UNCH
NOV19		----	----		-17.79 + 0.08	----	----	215	UNCH
DEC19		----	----		-19.24 + 0.11	----	----	222	UNCH
JAN20		----	----		-20.33 + 0.11	----	----	114	UNCH
FEB20		----	----		-20.46 + 0.11	----	----	114	UNCH
MAR20		----	----		-20.46 + 0.10	----	----	114	UNCH
APR20		----	----		-20.35 + 0.11	----	----	114	UNCH
MAY20		----	----		-20.12 + 0.11	----	----	114	UNCH
JUN20		----	----		-19.84 + 0.13	----	----	114	UNCH
JUL20		----	----		-19.59 + 0.12	----	----	114	UNCH
AUG20		----	----		-19.28 + 0.13	----	----	114	UNCH
SEP20		----	----		-18.99 + 0.15	----	----	114	UNCH
OCT20		----	----		-18.73 + 0.14	----	----	114	UNCH
NOV20		----	----		-18.42 + 0.13	----	----	114	UNCH
DEC20		----	----		-18.15 + 0.12	----	----	114	UNCH
JAN21		----	----		-17.97 + 0.00	----	----	20	UNCH
FEB21		----	----		-17.71 - 0.03	----	----	20	UNCH
MAR21		----	----		-17.44 - 0.02	----	----	20	UNCH
APR21		----	----		-17.18 - 0.01	----	----	20	UNCH
MAY21		----	----		-16.92 + 0.02	----	----	20	UNCH
JUN21		----	----		-16.66 + 0.03	----	----	20	UNCH
JUL21		----	----		-16.43 + 0.04	----	----	20	UNCH
AUG21		----	----		-16.20 + 0.04	----	----	20	UNCH
SEP21		----	----		-16.01 + 0.05	----	----	20	UNCH
OCT21		----	----		-15.80 + 0.05	----	----	20	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
FO FUT	FUEL OIL CRACK VS ICE							
NOV21	----	----	-15.65 + 0.05		----	----	20	UNCH
DEC21	----	----	-15.49 + 0.05		----	----	20	UNCH
TOTAL FO FUT						57	9354 +	14
FI FUT	FUEL OIL NWE CRACK VS ICE							
APR19	----	----	-7.63 + 0.11		----	----	5	UNCH
MAY19	----	----	-8.16 + 0.05		----	----	5	UNCH
JUN19	----	----	-8.51 + 0.06		----	----	5	UNCH
JAN20	----	----	-4.93 + 0.21		----	----	13	UNCH
FEB20	----	----	-4.85 + 0.19		----	----	13	UNCH
MAR20	----	----	-4.67 + 0.16		----	----	13	UNCH
APR20	----	----	-4.88 + 0.11		----	----	13	UNCH
MAY20	----	----	-4.65 + 0.11		----	----	13	UNCH
JUN20	----	----	-4.37 + 0.13		----	----	13	UNCH
JUL20	----	----	-4.90 + 0.12		----	----	13	UNCH
AUG20	----	----	-4.60 + 0.13		----	----	13	UNCH
SEP20	----	----	-4.31 + 0.15		----	----	13	UNCH
OCT20	----	----	-4.83 + 0.14		----	----	13	UNCH
NOV20	----	----	-4.52 + 0.13		----	----	13	UNCH
DEC20	----	----	-4.25 + 0.12		----	----	13	UNCH
TOTAL FI FUT							171	
GCI FUT	G. COAST #6 FUEL OIL 3.0% VS BRENT							
NOV18	----	----	-5.284 + 0.039		----	----	515	UNCH
DEC18	----	----	-6.148 + 0.134		----	----	589	UNCH
JAN19	----	----	-7.166 + 0.125		----	----	150	UNCH
FEB19	----	----	-8.096 + 0.086		----	----	150	UNCH
MAR19	----	----	-8.963 + 0.096		----	----	150	UNCH
APR19	----	----	-9.769 + 0.065		----	----	65	UNCH
MAY19	----	----	-10.510 + 0.052		----	----	65	UNCH
JUN19	----	----	-11.198 + 0.031		----	----	65	UNCH
TOTAL GCI FUT							1749	
7R FUT	GAS EUROBOB (ARGUS) BALMO							
02NOV18	----	----	575.853 + 2.919		----	----	11	UNCH
06NOV18	----	----	572.101 + 3.227		----	----	13	UNCH
08NOV18	----	----	568.334 + 3.607		----	----	15	UNCH
12NOV18	----	----	565.345 + 4.087		----	----	10	UNCH
14NOV18	----	----	562.552 + 4.716		----	----	5	UNCH
15NOV18	----	----	562.098 + 5.109		----	----	6	UNCH
16NOV18	----	----	562.243 + 5.574		----	----	8	UNCH
TOTAL 7R FUT							68	
7I FUT	GAS EUROBOB (ARGUS) CRK BALMO							
06NOV18	----	----	0.891 + 0.307		----	----	74	UNCH
TOTAL 7I FUT							74	
7K FUT	GAS EURO-BOB OXY (ARG) CRACK							
NOV18	----	----	0.972 + 0.265		----	----	4258	UNCH
DEC18	----	----	-0.543 + 0.838		----	50	3952 +	40
JAN19	----	----	-0.550 + 0.776		----	----	1988	UNCH
FEB19	----	----	-0.234 + 0.748		----	----	1763	UNCH
MAR19	----	----	0.128 + 0.721		----	----	1946	UNCH
APR19	----	----	5.212 + 0.679		----	----	1881	UNCH
MAY19	----	----	5.622 + 0.543		----	----	1756	UNCH
JUN19	----	----	5.823 + 0.523		----	----	1806	UNCH
JUL19	----	----	5.667 + 0.540		----	----	852	UNCH
AUG19	----	----	5.351 + 0.531		----	----	852	UNCH
SEP19	----	----	4.813 + 0.468		----	----	827	UNCH
OCT19	----	----	1.769 + 0.420		----	----	731	UNCH
NOV19	----	----	0.927 + 0.364		----	----	731	UNCH
DEC19	----	----	0.555 + 0.338		----	----	731	UNCH
JAN20	----	----	2.420 + 0.518		----	----	593	UNCH
FEB20	----	----	2.727 + 0.462		----	----	593	UNCH
MAR20	----	----	2.966 + 0.571		----	----	593	UNCH
APR20	----	----	8.153 + 0.604		----	----	593	UNCH
MAY20	----	----	8.357 + 0.500		----	----	593	UNCH
JUN20	----	----	8.372 + 0.509		----	----	593	UNCH
JUL20	----	----	7.939 + 0.535		----	----	593	UNCH
AUG20	----	----	7.749 + 0.566		----	----	593	UNCH
SEP20	----	----	7.183 + 0.474		----	----	593	UNCH
OCT20	----	----	4.259 + 0.482		----	----	593	UNCH
NOV20	----	----	3.447 + 0.573		----	----	593	UNCH
DEC20	----	----	3.260 + 0.663		----	----	593	UNCH
TOTAL 7K FUT						50	31190 +	40
7H FUT	GAS EURO-BOB OXY (ARG) NEW BRG							
NOV18	----	----	578.656 + 2.787		----	----	1048	UNCH
DEC18	----	----	553.986 + 8.152		----	222	965 -	32

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	7H FUT	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST
		GAS EURO-BOB OXY (ARG) NEW BRG					
	JAN19	----	----	555.328 + 7.712	----	191	707 - 9
	FEB19	----	----	559.042 + 7.384	----	5	457 + 5
	MAR19	----	----	563.037 + 7.081	----	5	552 UNCH
	APR19	----	----	605.846 + 6.566	----	26	325 - 25
	MAY19	----	----	608.980 + 5.338	----	1	403 - 1
	JUN19	----	----	609.725 + 4.936	----	1	387 UNCH
	JUL19	----	----	607.183 + 4.830	----	----	150 UNCH
	AUG19	----	----	603.384 + 4.668	----	----	73 UNCH
	SEP19	----	----	597.715 + 3.966	----	----	183 UNCH
	OCT19	----	----	571.055 + 3.488	----	----	106 UNCH
	NOV19	----	----	563.115 + 2.939	----	----	79 UNCH
	DEC19	----	----	558.986 + 2.654	----	----	161 UNCH
	DEC20	----	----	571.301 + 4.263	----	----	35 UNCH
	TOTAL 7H FUT					451	5631 - 62
	GOC FUT	GASOIL (ICE) CRACK SPREAD					
	JAN19	----	----	16.774 - 0.663	----	----	1 UNCH
	FEB19	----	----	16.515 - 0.642	----	----	1 UNCH
	MAR19	----	----	16.228 - 0.633	----	----	1 UNCH
	APR19	----	----	16.084 - 0.593	----	----	1 UNCH
	MAY19	----	----	16.129 - 0.568	----	----	1 UNCH
	JUN19	----	----	16.338 - 0.561	----	----	1 UNCH
	JUL19	----	----	16.731 - 0.544	----	----	1 UNCH
	AUG19	----	----	17.205 - 0.555	----	----	1 UNCH
	SEP19	----	----	17.703 - 0.546	----	----	1 UNCH
	OCT19	----	----	18.060 - 0.536	----	----	1 UNCH
	NOV19	----	----	18.236 - 0.526	----	----	1 UNCH
	DEC19	----	----	18.487 - 0.517	----	----	1 UNCH
	JAN20	----	----	18.597 - 0.540	----	----	1 UNCH
	FEB20	----	----	18.613 - 0.551	----	----	1 UNCH
	MAR20	----	----	18.571 - 0.554	----	----	1 UNCH
	APR20	----	----	18.417 - 0.569	----	----	1 UNCH
	MAY20	----	----	18.281 - 0.577	----	----	1 UNCH
	JUN20	----	----	18.257 - 0.557	----	----	1 UNCH
	JUL20	----	----	18.285 - 0.547	----	----	1 UNCH
	AUG20	----	----	18.281 - 0.558	----	----	1 UNCH
	SEP20	----	----	18.216 - 0.574	----	----	1 UNCH
	OCT20	----	----	17.979 - 0.575	----	----	1 UNCH
	NOV20	----	----	17.709 - 0.565	----	----	1 UNCH
	DEC20	----	----	17.560 - 0.577	----	----	1 UNCH
	TOTAL GOC FUT						24
	WQ FUT	GASOIL 0.1 RDAM BRGS VS ICE					
	NOV18	----	----	-12.545 + 2.307	----	----	12 UNCH
	DEC18	----	----	-9.000 + 0.584	----	----	12 UNCH
	TOTAL WQ FUT						24
	VL FUT	GASOIL 0.1 ROTTERDAM BARGES SW					
	NOV18	----	----	638.398 + 0.057	----	----	35 UNCH
	DEC18	----	----	620.188 - 3.591	----	5	25 + 5
	TOTAL VL FUT					5	60 + 5
	TP FUT	GASOIL 10PPM VS ICE					
	NOV18	----	----	8.322 - 1.394	----	----	47 UNCH
	DEC18	----	----	5.375 - 0.125	----	----	47 UNCH
	JAN19	----	----	4.000 UNCH	----	----	1 UNCH
	FEB19	----	----	4.000 - 0.125	----	----	1 UNCH
	MAR19	----	----	4.042 - 0.021	----	----	1 UNCH
	TOTAL TP FUT						97
	GX FUT	GASOIL CALENDAR					
	NOV18	----	----	650.94 - 2.25	----	----	2 UNCH
	DEC18	----	----	629.19 - 4.18	----	----	2 UNCH
	JAN19	----	----	625.73 - 3.82	----	----	0 UNCH
	FEB19	----	----	624.76 - 3.75	----	----	0 UNCH
	MAR19	----	----	623.50 - 3.75	----	----	0 UNCH
	APR19	----	----	622.85 - 3.60	----	----	2 UNCH
	MAY19	----	----	622.92 - 3.50	----	----	2 UNCH
	JUN19	----	----	623.65 - 3.66	----	----	2 UNCH
	TOTAL GX FUT						10
	GZ FUT	GASOIL CRACK SPREAD CALENDAR					
	NOV18	----	----	18.88 - 0.37	----	----	1135 UNCH
	DEC18	----	----	17.41 - 0.70	----	----	1235 UNCH
	JAN19	----	----	16.77 - 0.66	----	----	689 UNCH
	FEB19	----	----	16.52 - 0.64	----	----	689 UNCH
	MAR19	----	----	16.23 - 0.63	----	----	689 UNCH
	APR19	----	----	16.08 - 0.59	----	----	687 UNCH
	MAY19	----	----	16.13 - 0.57	----	----	687 UNCH

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GZ FUT	GASOIL CRACK SPREAD CALENDAR								
JUN19				16.34	- 0.56			687	UNCH
JUL19				16.73	- 0.54			467	UNCH
AUG19				17.21	- 0.56			467	UNCH
SEP19				17.70	- 0.55			467	UNCH
OCT19				18.06	- 0.54			467	UNCH
NOV19				18.24	- 0.53			467	UNCH
DEC19				18.49	- 0.52			467	UNCH
JAN20				18.60	- 0.54			621	UNCH
FEB20				18.61	- 0.55			621	UNCH
MAR20				18.57	- 0.55			621	UNCH
APR20				18.42	- 0.57			721	UNCH
MAY20				18.28	- 0.58			721	UNCH
JUN20				18.26	- 0.56			721	UNCH
JUL20				18.29	- 0.55			611	UNCH
AUG20				18.28	- 0.56			611	UNCH
SEP20				18.22	- 0.57			611	UNCH
OCT20				17.98	- 0.58			621	UNCH
NOV20				17.71	- 0.57			621	UNCH
DEC20				17.56	- 0.58			621	UNCH
TOTAL GZ FUT								17022	
QA FUT	GASOIL MINI CALENDAR								
NOV18				650.943	- 2.250			183	UNCH
DEC18				629.188	- 4.175			184	UNCH
JAN19				625.727	- 3.818			130	UNCH
FEB19				624.763	- 3.750			110	UNCH
MAR19				623.500	- 3.750			110	UNCH
APR19				622.845	- 3.595			83	UNCH
MAY19				622.924	- 3.500			88	UNCH
JUN19				623.650	- 3.663			83	UNCH
JUL19				625.467	- 3.750			33	UNCH
AUG19				627.955	- 3.920			33	UNCH
SEP19				630.607	- 4.000			33	UNCH
OCT19				632.098	- 4.000			2	UNCH
NOV19				632.583	- 4.000			2	UNCH
DEC19				633.524	- 4.000			2	UNCH
JAN20				633.636	- 4.182			5	UNCH
TOTAL QA FUT								1081	
A7 FUT	GROUP THREE ULSD (PLATTS)								
NOV18				2.1054	+ 0.0078			19	UNCH
DEC18				1.9869	- 0.0001			2	UNCH
JAN19				1.9876	- 0.0005			2	UNCH
FEB19				1.9982	- 0.0014			2	UNCH
TOTAL A7 FUT								25	
A9 FUT	GROUP THREE UNLEAD GAS (PLTS)								
NOV18				1.5836	+ 0.0081			50	UNCH
DEC18				1.5007	+ 0.0268			50	UNCH
JAN19				1.5069	+ 0.0249			25	UNCH
FEB19				1.5400	+ 0.0230			25	UNCH
MAR19				1.6338	+ 0.0212			25	UNCH
TOTAL A9 FUT								175	
A6 FUT	GRP THREE ULSD(PLT)VS HEAT OIL								
NOV18				-0.0140	+ 0.0080			2589	UNCH
DEC18				-0.0800	UNCH		60	1469	- 5
JAN19				-0.0700	UNCH			243	UNCH
FEB19				-0.0500	UNCH			264	UNCH
MAR19				-0.0300	UNCH			264	UNCH
APR19				-0.0075	UNCH			153	UNCH
MAY19				-0.0075	UNCH			153	UNCH
JUN19				-0.0075	UNCH			153	UNCH
JUL19				-0.0050	UNCH			153	UNCH
AUG19				-0.0050	UNCH			153	UNCH
SEP19				-0.0050	UNCH			153	UNCH
OCT19				0.0075	UNCH			199	UNCH
NOV19				-0.0150	UNCH			85	UNCH
DEC19				-0.0700	UNCH			85	UNCH
TOTAL A6 FUT							60	6116	- 5
A8 FUT	GRP THREE UNL GS (PLT) VS RBOB								
NOV18				-0.0271	- 0.0011			1230	UNCH
DEC18				-0.0675	+ 0.0050		100	1610	+ 50
JAN19				-0.0675	+ 0.0025			534	UNCH
FEB19				-0.0550	UNCH			100	UNCH
MAR19				-0.1600	UNCH			500	UNCH
MAY19				-0.1450	UNCH			50	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
A8 FUT	GRP THREE UNL GS (PLT) VS RBOB							
JUN19	----	----	-0.1300	UNCH	----	----	150	UNCH
TOTAL A8 FUT						100	4174 +	50
CRB FUT	GULF CBOB A2 PL VS RBOB SPR F							
NOV18	----	----	-0.0892	+ 0.0009	----	----	2860	UNCH
DEC18	----	----	-0.0825	UNCH	----	600	2635 -	75
JAN19	----	----	-0.0750	- 0.0025	----	----	995	UNCH
FEB19	----	----	-0.0725	- 0.0025	----	----	25	UNCH
APR19	----	----	-0.1725	- 0.0100	----	----	125	UNCH
MAY19	----	----	-0.1625	- 0.0050	----	----	125	UNCH
JUN19	----	----	-0.1525	UNCH	----	----	125	UNCH
TOTAL CRB FUT						600	6890 -	75
GCU FUT	GULF CO NO6 FUELOIL 3% V. EURO 3.5%							
NOV18	----	----	-1.263	+ 0.079	----	----	2467	UNCH
DEC18	----	----	-0.659	UNCH	----	10	4086	UNCH
JAN19	----	----	-0.450	+ 0.036	----	----	1606	UNCH
FEB19	----	----	-0.458	+ 0.030	----	----	702	UNCH
MAR19	----	----	-0.460	+ 0.029	----	----	728	UNCH
APR19	----	----	-0.474	- 0.001	----	----	740	UNCH
MAY19	----	----	-0.487	+ 0.001	----	----	740	UNCH
JUN19	----	----	-0.509	- 0.020	----	----	740	UNCH
JUL19	----	----	-0.499	+ 0.010	----	----	565	UNCH
AUG19	----	----	-0.507	- 0.016	----	----	565	UNCH
SEP19	----	----	-0.444	+ 0.004	----	----	565	UNCH
OCT19	----	----	-0.393	+ 0.029	----	----	625	UNCH
NOV19	----	----	-0.336	+ 0.054	----	----	590	UNCH
DEC19	----	----	-0.186	+ 0.059	----	----	590	UNCH
JAN20	----	----	0.245	- 0.016	----	----	225	UNCH
FEB20	----	----	0.306	- 0.021	----	----	225	UNCH
MAR20	----	----	0.355	- 0.026	----	----	225	UNCH
APR20	----	----	0.380	- 0.026	----	----	225	UNCH
MAY20	----	----	0.381	- 0.026	----	----	225	UNCH
JUN20	----	----	0.399	- 0.026	----	----	225	UNCH
JUL20	----	----	0.416	- 0.007	----	----	225	UNCH
AUG20	----	----	0.410	- 0.007	----	----	225	UNCH
SEP20	----	----	0.448	- 0.006	----	----	225	UNCH
OCT20	----	----	0.495	+ 0.013	----	----	225	UNCH
NOV20	----	----	0.524	+ 0.033	----	----	225	UNCH
DEC20	----	----	0.552	+ 0.053	----	----	225	UNCH
TOTAL GCU FUT						10	18009	
VZ FUT	GULF COAST 3% FUEL OIL BALMO							
02NOV18	----	----	63.094	+ 0.109	----	----	60	UNCH
05NOV18	----	----	62.890	+ 0.116	----	----	90	UNCH
06NOV18	----	----	62.658	+ 0.123	----	----	45	UNCH
07NOV18	----	----	62.452	+ 0.130	----	----	384	UNCH
08NOV18	----	----	62.158	+ 0.139	----	----	40	UNCH
12NOV18	----	----	61.730	+ 0.160	----	----	15	UNCH
14NOV18	----	----	61.598	+ 0.189	----	----	44	UNCH
15NOV18	----	----	61.633	+ 0.208	----	----	20	UNCH
16NOV18	----	----	61.650	NEW	----	5	5 +	5
TOTAL VZ FUT						5	703 +	5
MF FUT	GULF COAST HSFO (PLATTS) FUTURES							
NOV18	----	----	63.29	+ 0.10	----	----	6794	UNCH
DEC18	----	----	60.90	+ 0.27	----	981	8826 -	252
JAN19	----	----	60.05	+ 0.27	----	733	5953 -	134
FEB19	----	----	59.25	+ 0.22	----	----	2486	UNCH
MAR19	----	----	58.50	+ 0.22	----	----	1963	UNCH
APR19	----	----	57.75	+ 0.17	----	----	2992	UNCH
MAY19	----	----	56.98	+ 0.15	----	----	582	UNCH
JUN19	----	----	56.18	+ 0.10	----	----	1109	UNCH
JUL19	----	----	55.23	+ 0.10	----	----	593	UNCH
AUG19	----	----	53.95	+ 0.07	----	----	456	UNCH
SEP19	----	----	52.30	+ 0.07	----	----	483	UNCH
OCT19	----	----	50.23	+ 0.10	----	----	425	UNCH
NOV19	----	----	48.55	+ 0.12	----	----	425	UNCH
DEC19	----	----	47.13	+ 0.15	----	----	425	UNCH
JAN20	----	----	46.38	+ 0.08	----	----	34	UNCH
FEB20	----	----	46.20	+ 0.05	----	----	34	UNCH
MAR20	----	----	46.15	+ 0.02	----	----	34	UNCH
APR20	----	----	46.18	+ 0.03	----	----	34	UNCH
MAY20	----	----	46.28	+ 0.03	----	----	34	UNCH
JUN20	----	----	46.45	+ 0.02	----	----	34	UNCH
JUL20	----	----	46.63	+ 0.03	----	----	29	UNCH
AUG20	----	----	46.83	+ 0.03	----	----	29	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
MF FUT	GULF COAST HSFO (PLATTS) FUTURES						
SEP20	----	----	47.05 + 0.02	----	----	29	UNCH
OCT20	----	----	47.28 + 0.03	----	----	29	UNCH
NOV20	----	----	47.50 + 0.02	----	----	29	UNCH
DEC20	----	----	47.73 + 0.03	----	----	29	UNCH
TOTAL MF FUT					1714	33890	- 386
GE FUT	GULF COAST JET FUEL CLNDR						
NOV18	----	----	2.0135 - 0.0013	----	----	157	UNCH
DEC18	----	----	1.9569 + 0.0024	----	----	157	UNCH
JAN19	----	----	1.9676 - 0.0005	----	----	64	UNCH
FEB19	----	----	1.9682 - 0.0014	----	----	64	UNCH
MAR19	----	----	1.9633 - 0.0019	----	----	64	UNCH
APR19	----	----	1.9709 - 0.0012	----	----	67	UNCH
MAY19	----	----	1.9691 - 0.0018	----	----	67	UNCH
JUN19	----	----	1.9747 - 0.0026	----	----	67	UNCH
JUL19	----	----	1.9866 - 0.0017	----	----	13	UNCH
AUG19	----	----	1.9965 - 0.0023	----	----	13	UNCH
SEP19	----	----	2.0057 - 0.0030	----	----	13	UNCH
TOTAL GE FUT						746	
ME FUT	GULF COAST JET VS NYM 2 HO SPRD						
NOV18	----	----	-0.1059 - 0.0011	----	----	8104	UNCH
DEC18	----	----	-0.1100 + 0.0025	----	950	6608	+ 300
JAN19	----	----	-0.0900 UNCH	----	400	2256	+ 400
FEB19	----	----	-0.0800 UNCH	----	----	1621	UNCH
MAR19	----	----	-0.0700 UNCH	----	----	2038	UNCH
APR19	----	----	-0.0565 + 0.0010	----	75	1104	+ 75
MAY19	----	----	-0.0565 + 0.0010	----	75	1104	+ 75
JUN19	----	----	-0.0565 + 0.0010	----	75	1104	+ 75
JUL19	----	----	-0.0525 + 0.0025	----	125	944	+ 125
AUG19	----	----	-0.0525 + 0.0025	----	125	944	+ 125
SEP19	----	----	-0.0525 + 0.0025	----	125	944	+ 125
OCT19	----	----	-0.0775 UNCH	----	----	519	UNCH
NOV19	----	----	-0.0875 UNCH	----	----	519	UNCH
DEC19	----	----	-0.0950 UNCH	----	----	519	UNCH
TOTAL ME FUT					1950	28328	+ 1300
MG FUT	GULF COAST NO.6 FUEL OIL CRACK						
NOV18	----	----	4.66 + 0.10	----	----	876	UNCH
DEC18	----	----	4.15 + 0.28	----	----	866	UNCH
JAN19	----	----	3.11 + 0.30	----	----	360	UNCH
FEB19	----	----	2.12 + 0.25	----	----	300	UNCH
MAR19	----	----	1.19 + 0.25	----	----	300	UNCH
APR19	----	----	0.28 + 0.20	----	----	75	UNCH
MAY19	----	----	-0.63 + 0.19	----	----	75	UNCH
JUN19	----	----	-1.52 + 0.15	----	----	75	UNCH
JUL19	----	----	-2.56 + 0.15	----	----	85	UNCH
AUG19	----	----	-3.91 + 0.13	----	----	85	UNCH
SEP19	----	----	-5.61 + 0.14	----	----	85	UNCH
JAN20	----	----	-11.48 + 0.20	----	----	35	UNCH
FEB20	----	----	-11.62 + 0.18	----	----	35	UNCH
MAR20	----	----	-11.63 + 0.17	----	----	35	UNCH
APR20	----	----	-11.56 + 0.20	----	----	35	UNCH
MAY20	----	----	-11.43 + 0.21	----	----	35	UNCH
JUN20	----	----	-11.21 + 0.20	----	----	35	UNCH
JUL20	----	----	-10.97 + 0.23	----	----	35	UNCH
AUG20	----	----	-10.73 + 0.24	----	----	35	UNCH
SEP20	----	----	-10.48 + 0.24	----	----	35	UNCH
OCT20	----	----	-10.22 + 0.27	----	----	35	UNCH
NOV20	----	----	-9.97 + 0.29	----	----	35	UNCH
DEC20	----	----	-9.65 + 0.32	----	----	35	UNCH
TOTAL MG FUT						3602	
LY FUT	GULF COAST ULSD CALENDAR						
NOV18	----	----	2.0351 - 0.0002	----	----	262	UNCH
DEC18	----	----	1.9719 - 0.0016	----	----	287	UNCH
JAN19	----	----	1.9811 - 0.0005	----	----	134	UNCH
FEB19	----	----	1.9832 - 0.0014	----	----	125	UNCH
MAR19	----	----	1.9833 - 0.0019	----	----	116	UNCH
APR19	----	----	1.9814 - 0.0022	----	----	133	UNCH
MAY19	----	----	1.9796 - 0.0028	----	----	83	UNCH
JUN19	----	----	1.9852 - 0.0036	----	----	113	UNCH
JUL19	----	----	1.9941 - 0.0042	----	----	69	UNCH
AUG19	----	----	2.0040 - 0.0048	----	----	40	UNCH
SEP19	----	----	2.0132 - 0.0055	----	----	40	UNCH
OCT19	----	----	2.0215 - 0.0059	----	----	40	UNCH
NOV19	----	----	2.0234 - 0.0056	----	----	40	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
LY FUT GULF COAST ULSD CALENDAR							
DEC19	----	----	2.0020 - 0.0054	----	----	40	UNCH
JAN20	----	----	2.0018 - 0.0056	----	----	25	UNCH
FEB20	----	----	2.0064 - 0.0066	----	----	25	UNCH
MAR20	----	----	2.0104 - 0.0082	----	----	25	UNCH
APR20	----	----	2.0079 - 0.0082	----	----	25	UNCH
TOTAL LY FUT						1622	
GY FUT GULF COAST ULSD CRACK SPREAD							
NOV18	----	----	26.84 - 0.01	----	----	50	UNCH
DEC18	----	----	26.07 - 0.06	----	----	50	UNCH
JAN19	----	----	26.27 + 0.01	----	----	25	UNCH
FEB19	----	----	26.16 - 0.03	----	----	25	UNCH
MAR19	----	----	25.99 - 0.05	----	----	25	UNCH
APR19	----	----	25.75 - 0.06	----	----	40	UNCH
MAY19	----	----	25.53 - 0.08	----	----	40	UNCH
JUN19	----	----	25.68 - 0.10	----	----	40	UNCH
JUL19	----	----	25.96 - 0.13	----	----	25	UNCH
AUG19	----	----	26.31 - 0.14	----	----	25	UNCH
SEP19	----	----	26.64 - 0.17	----	----	25	UNCH
OCT19	----	----	26.95 - 0.17	----	----	25	UNCH
NOV19	----	----	27.02 - 0.14	----	----	25	UNCH
DEC19	----	----	26.18 - 0.11	----	----	25	UNCH
JAN20	----	----	26.22 - 0.11	----	----	10	UNCH
FEB20	----	----	26.45 - 0.15	----	----	10	UNCH
MAR20	----	----	26.66 - 0.19	----	----	10	UNCH
APR20	----	----	26.59 - 0.18	----	----	10	UNCH
MAY20	----	----	26.60 - 0.17	----	----	10	UNCH
JUN20	----	----	26.74 - 0.16	----	----	10	UNCH
JUL20	----	----	26.97 - 0.15	----	----	10	UNCH
AUG20	----	----	27.00 - 0.15	----	----	10	UNCH
SEP20	----	----	26.92 - 0.14	----	----	10	UNCH
OCT20	----	----	26.85 - 0.14	----	----	10	UNCH
NOV20	----	----	26.53 - 0.12	----	----	10	UNCH
DEC20	----	----	25.87 - 0.10	----	----	10	UNCH
TOTAL GY FUT						565	
GBB FUT GULF CST UNL 87 GAS M2 V. RBOB BLMO							
02NOV18	----	----	-0.0268 - 0.0003	----	----	100	UNCH
05NOV18	----	----	-0.0285 - 0.0002	----	----	300	UNCH
07NOV18	----	----	-0.0324 - 0.0003	----	----	40	UNCH
TOTAL GBB FUT						440	
GCC FUT GULF UNL87 M2 PL CRACK SPRD F							
NOV18	----	----	7.970 + 0.378	----	----	25	UNCH
DEC18	----	----	8.379 + 0.922	----	----	25	UNCH
JAN19	----	----	8.657 + 0.965	----	----	25	UNCH
FEB19	----	----	9.443 + 0.996	----	----	25	UNCH
MAR19	----	----	12.570 + 0.921	----	----	25	UNCH
APR19	----	----	13.763 + 0.656	----	----	55	UNCH
MAY19	----	----	14.098 + 0.822	----	----	55	UNCH
JUN19	----	----	14.123 + 1.008	----	----	55	UNCH
TOTAL GCC FUT						290	
RVG FUT GULF UNL87 M2 PL VS RBOB SPR F							
NOV18	----	----	-0.0249 - 0.0002	----	----	4416	UNCH
DEC18	----	----	-0.0175 UNCH	----	890	5721 + 440	
JAN19	----	----	-0.0125 UNCH	----	----	1377	UNCH
FEB19	----	----	-0.0100 UNCH	----	100	1312 + 100	
MAR19	----	----	-0.1300 UNCH	----	----	187	UNCH
APR19	----	----	-0.1100 - 0.0050	----	50	2024 + 50	
MAY19	----	----	-0.1000 UNCH	----	50	2124 + 50	
JUN19	----	----	-0.0900 + 0.0050	----	50	2024 + 50	
JUL19	----	----	-0.0800 UNCH	----	----	25	UNCH
AUG19	----	----	-0.0575 UNCH	----	----	25	UNCH
SEP19	----	----	0.0225 UNCH	----	----	25	UNCH
OCT19	----	----	0.0000 UNCH	----	----	13	UNCH
NOV19	----	----	-0.0300 UNCH	----	----	13	UNCH
DEC19	----	----	-0.0400 UNCH	----	----	13	UNCH
TOTAL RVG FUT					1140	19299 + 690	
HOB FUT HEATING OIL VS. BRENT CRACK SPREAD							
NOV18	----	----	20.427 - 0.079	----	----	430	UNCH
DEC18	----	----	19.762 - 0.145	----	----	486	UNCH
JAN19	----	----	19.203 - 0.171	----	8	242	UNCH
FEB19	----	----	18.678 - 0.198	----	8	242	UNCH
MAR19	----	----	17.936 - 0.208	----	8	242	UNCH
APR19	----	----	17.632 - 0.202	----	8	237	UNCH
MAY19	----	----	17.590 - 0.216	----	8	237	UNCH

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	HEATING OIL VS. BRENT CRACK SPREAD	HEATING OIL VS. BRENT CRACK SPREAD	SETT. PRICE & PT. CHGE	SETT. PRICE & PT. CHGE	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	OPEN INTEREST
HOB FUT									
JUN19	----	----	17.937 -	0.221	----	8	237	UNCH	
JUL19	----	----	18.418 -	0.217	----	8	315	UNCH	
AUG19	----	----	18.974 -	0.231	----	8	315	UNCH	
SEP19	----	----	19.502 -	0.240	----	8	315	UNCH	
OCT19	----	----	20.008 -	0.247	----	8	315	UNCH	
NOV19	----	----	20.409 -	0.224	----	8	315	UNCH	
DEC19	----	----	20.684 -	0.207	----	8	315	UNCH	
JAN20	----	----	20.666 -	0.214	----	----	31	UNCH	
FEB20	----	----	20.539 -	0.236	----	----	31	UNCH	
MAR20	----	----	20.177 -	0.294	----	----	31	UNCH	
APR20	----	----	20.078 -	0.284	----	----	31	UNCH	
MAY20	----	----	20.187 -	0.283	----	----	31	UNCH	
JUN20	----	----	20.394 -	0.263	----	----	31	UNCH	
JUL20	----	----	20.556 -	0.263	----	----	31	UNCH	
AUG20	----	----	20.658 -	0.259	----	----	31	UNCH	
SEP20	----	----	20.634 -	0.250	----	----	31	UNCH	
OCT20	----	----	20.738 -	0.248	----	----	31	UNCH	
NOV20	----	----	20.917 -	0.247	----	----	31	UNCH	
DEC20	----	----	21.074 -	0.244	----	----	31	UNCH	
TOTAL HOB FUT						96	4615		
JA FUT	JAPAN C&F NAPHTHA								
NOV18	----	----	550.07 +	4.14	----	----	673	UNCH	
DEC18	----	----	545.82 +	7.26	----	31	583 +	15	
JAN19	----	----	547.33 +	6.49	----	----	362	UNCH	
FEB19	----	----	546.96 +	6.05	----	----	206	UNCH	
MAR19	----	----	545.82 +	5.30	----	----	182	UNCH	
APR19	----	----	544.29 +	4.98	----	----	84	UNCH	
MAY19	----	----	543.52 +	5.24	----	----	45	UNCH	
JUN19	----	----	542.82 +	5.20	----	----	45	UNCH	
JUL19	----	----	542.41 +	4.97	----	----	41	UNCH	
AUG19	----	----	542.25 +	4.94	----	----	46	UNCH	
SEP19	----	----	542.04 +	4.66	----	----	41	UNCH	
OCT19	----	----	541.72 +	4.51	----	----	47	UNCH	
NOV19	----	----	541.60 +	4.60	----	----	54	UNCH	
DEC19	----	----	541.11 +	4.54	----	----	49	UNCH	
TOTAL JA FUT						31	2458 +	15	
JB FUT	JAPAN C&F NAPHTHA CRACK SPREAD								
NOV18	----	----	-7.38 +	0.39	----	----	65	UNCH	
DEC18	----	----	-6.40 +	0.67	----	----	105	UNCH	
MAY19	----	----	-7.09 +	0.49	----	----	40	UNCH	
OCT19	----	----	-6.59 +	0.50	----	----	27	UNCH	
NOV19	----	----	-6.50 +	0.52	----	----	27	UNCH	
DEC19	----	----	-6.43 +	0.52	----	----	27	UNCH	
TOTAL JB FUT							291		
E6 FUT	JAPAN NAPHTHA BALMO								
02NOV18	----	----	547.059 +	4.346	----	----	5	UNCH	
08NOV18	----	----	540.202 +	5.113	----	----	5	UNCH	
13NOV18	----	----	538.263 +	6.209	----	----	10	UNCH	
TOTAL E6 FUT							20		
1T FUT	JET AVIA FUEL(PLTT) CRGS FOB M								
NOV18	----	----	674.371 +	0.119	----	----	3	UNCH	
DEC18	----	----	658.878 -	2.348	----	----	3	UNCH	
JAN19	----	----	657.084 -	2.908	----	----	1	UNCH	
FEB19	----	----	657.870 -	3.339	----	----	1	UNCH	
MAR19	----	----	655.982 -	3.464	----	----	1	UNCH	
APR19	----	----	656.452 -	3.810	----	----	1	UNCH	
MAY19	----	----	656.531 -	3.714	----	----	1	UNCH	
JUN19	----	----	657.257 -	3.877	----	----	1	UNCH	
JUL19	----	----	659.325 -	3.714	----	----	3	UNCH	
AUG19	----	----	661.812 -	3.884	----	----	3	UNCH	
SEP19	----	----	664.464 -	3.965	----	----	3	UNCH	
OCT19	----	----	666.205 -	4.027	----	----	3	UNCH	
NOV19	----	----	666.690 -	4.027	----	----	3	UNCH	
DEC19	----	----	667.631 -	4.027	----	----	3	UNCH	
TOTAL 1T FUT							30		
1V FUT	JET AVIA FUEL(PLTT) FOB V. ICE								
NOV18	----	----	23.428 +	2.369	----	----	2	UNCH	
DEC18	----	----	29.690 +	1.827	----	----	2	UNCH	
TOTAL 1V FUT							4		
JC FUT	JET CIF NWE VS ICE								
NOV18	----	----	40.13 +	2.51	----	----	18	UNCH	
DEC18	----	----	46.58 +	2.04	----	----	18	UNCH	
JAN19	----	----	48.25 +	1.12	----	----	19	UNCH	

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
JC FUT	JET CIF NWE VS ICE					
FEB19	----	----	50.00 + 0.62	----	----	19 UNCH
MAR19	----	----	49.38 + 0.50	----	----	19 UNCH
APR19	----	----	50.51 + 0.01	----	----	42 UNCH
MAY19	----	----	50.50 UNCH	----	----	42 UNCH
JUN19	----	----	50.50 UNCH	----	----	42 UNCH
JUL19	----	----	50.75 + 0.25	----	----	25 UNCH
AUG19	----	----	50.75 + 0.24	----	----	25 UNCH
SEP19	----	----	50.75 + 0.25	----	----	25 UNCH
OCT19	----	----	51.00 + 0.19	----	----	22 UNCH
NOV19	----	----	51.00 + 0.18	----	----	22 UNCH
DEC19	----	----	51.00 + 0.18	----	----	22 UNCH
TOTAL JC FUT						360
1M FUT	JET FUEL UP-DOWN BALMO CLNDR S					
02NOV18	----	----	-0.1072 - 0.0011	----	----	150 UNCH
05NOV18	----	----	-0.1090 - 0.0012	----	----	250 UNCH
06NOV18	----	----	-0.1107 - 0.0013	----	----	550 UNCH
07NOV18	----	----	-0.1120 - 0.0014	----	----	1300 UNCH
08NOV18	----	----	-0.1127 - 0.0015	----	----	200 UNCH
09NOV18	----	----	-0.1137 - 0.0016	----	----	250 UNCH
12NOV18	----	----	-0.1138 - 0.0018	----	----	400 UNCH
13NOV18	----	----	-0.1139 - 0.0019	----	----	800 UNCH
14NOV18	----	----	-0.1139 - 0.0020	----	----	850 UNCH
16NOV18	----	----	-0.1125 NEW	----	200	200 + 200
TOTAL 1M FUT					200	4950 + 200
KL FUT	LA CARB DIESEL (OPIS)					
NOV18	----	----	0.0166 + 0.0001	----	----	100 UNCH
DEC18	----	----	0.0000 UNCH	----	----	190 UNCH
TOTAL KL FUT						290
JL FUT	LA CARBOB GASOLINE(OPIS)					
NOV18	----	----	0.1638 + 0.0312	----	----	175 UNCH
DEC18	----	----	0.0425 + 0.0275	----	50	275 + 25
JAN19	----	----	0.0925 UNCH	----	----	50 UNCH
FEB19	----	----	0.1600 UNCH	----	----	125 UNCH
MAR19	----	----	0.0925 UNCH	----	----	50 UNCH
TOTAL JL FUT					50	675 + 25
JS FUT	LA JET (OPIS)					
NOV18	----	----	0.0141 - 0.0024	----	----	525 UNCH
DEC18	----	----	-0.0025 - 0.0025	----	25	475 + 25
JAN19	----	----	-0.0075 - 0.0025	----	----	101 UNCH
FEB19	----	----	-0.0075 - 0.0025	----	----	101 UNCH
MAR19	----	----	-0.0076 - 0.0025	----	----	101 UNCH
APR19	----	----	0.0175 - 0.0025	----	----	12 UNCH
MAY19	----	----	0.0175 - 0.0025	----	----	12 UNCH
JUN19	----	----	0.0175 - 0.0025	----	----	12 UNCH
TOTAL JS FUT					25	1339 + 25
MEF FUT	MICRO EUROPEAN 3.5% FUEL OIL BARGES					
NOV18	----	----	409.407 + 0.187	----	----	94 UNCH
DEC18	----	----	390.898 + 1.746	----	----	64 UNCH
JAN19	----	----	384.175 + 1.516	----	----	80 UNCH
FEB19	----	----	379.148 + 1.243	----	----	65 UNCH
MAR19	----	----	374.394 + 1.243	----	----	65 UNCH
APR19	----	----	369.723 + 1.117	----	----	77 UNCH
MAY19	----	----	364.886 + 0.951	----	----	69 UNCH
JUN19	----	----	359.942 + 0.761	----	----	65 UNCH
JUL19	----	----	353.848 + 0.572	----	----	44 UNCH
AUG19	----	----	345.800 + 0.575	----	----	44 UNCH
SEP19	----	----	334.925 + 0.450	----	----	44 UNCH
OCT19	----	----	321.425 + 0.450	----	----	55 UNCH
NOV19	----	----	310.425 + 0.450	----	----	55 UNCH
DEC19	----	----	300.425 + 0.575	----	----	55 UNCH
TOTAL MEF FUT						876
MAF FUT	MICRO SINGAPORE FUEL OIL 380CST (PL)					
NOV18	----	----	452.743 + 1.726	----	15	347 + 15
DEC18	----	----	430.148 + 2.871	----	20	135 + 20
JAN19	----	----	418.863 + 1.891	----	----	49 UNCH
FEB19	----	----	410.286 + 1.443	----	----	50 UNCH
MAR19	----	----	404.094 + 1.256	----	----	44 UNCH
APR19	----	----	398.840 + 1.192	----	----	16 UNCH
MAY19	----	----	393.061 + 1.001	----	----	14 UNCH
JUN19	----	----	387.267 + 0.861	----	----	20 UNCH
JUL19	----	----	380.898 + 0.522	----	----	14 UNCH
AUG19	----	----	373.725 + 0.525	----	----	28 UNCH
SEP19	----	----	364.225 + 0.400	----	----	19 UNCH

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MAF FUT	MICRO SINGAPORE FUEL OIL 380CST (PL)							
OCT19	----	----	350.725 + 0.400		----	----	30	UNCH
NOV19	----	----	340.725 + 0.400		----	----	25	UNCH
DEC19	----	----	329.975 + 0.525		----	----	30	UNCH
TOTAL MAF FUT						35	821 +	35
MAS FUT	MIN ARGUS PROPANE SAUDI ARAMCO							
DEC18	----	----	479.192 + 9.139		----	10	140	UNCH
JAN19	----	----	481.951 + 9.743		----	10	75	UNCH
FEB19	----	----	479.211 + 9.796		----	----	2	UNCH
MAR19	----	----	467.191 + 7.550		----	----	12	UNCH
APR19	----	----	456.286 + 6.732		----	----	10	UNCH
TOTAL MAS FUT						20	239	
MNC FUT	MIN EURO NPHTHA CIF NWE							
NOV18	----	----	528.008 + 3.178		----	----	2965 +	25
DEC18	----	----	524.192 + 6.639		----	225	2243 +	175
JAN19	----	----	526.201 + 6.243		----	3	202 +	3
FEB19	----	----	526.461 + 5.546		----	3	217 +	3
MAR19	----	----	525.691 + 4.800		----	3	91 +	3
APR19	----	----	524.286 + 4.732		----	3	104 +	3
MAY19	----	----	523.390 + 4.617		----	3	92 +	3
JUN19	----	----	522.696 + 4.579		----	3	97 +	3
JUL19	----	----	522.164 + 4.346		----	3	100 +	3
AUG19	----	----	522.000 + 4.440		----	3	90 +	3
SEP19	----	----	521.785 + 4.409		----	3	45 +	3
OCT19	----	----	521.345 + 4.381		----	3	43 +	3
NOV19	----	----	520.970 + 4.478		----	3	40 +	3
DEC19	----	----	520.356 + 4.410		----	3	28 +	3
JAN20	----	----	519.526 + 4.384		----	----	5	UNCH
FEB20	----	----	518.361 + 4.190		----	----	5	UNCH
MAR20	----	----	516.610 + 4.060		----	----	5	UNCH
APR20	----	----	514.350 + 3.654		----	----	5	UNCH
MAY20	----	----	512.782 + 3.501		----	----	5	UNCH
JUN20	----	----	511.292 + 3.184		----	----	5	UNCH
JUL20	----	----	510.133 + 2.612		----	----	5	UNCH
AUG20	----	----	509.426 + 2.366		----	----	5	UNCH
SEP20	----	----	508.974 + 2.217		----	----	5	UNCH
OCT20	----	----	508.806 + 2.485		----	----	5	UNCH
NOV20	----	----	508.321 + 2.575		----	----	5	UNCH
DEC20	----	----	507.632 + 2.498		----	----	5	UNCH
TOTAL MNC FUT						261	6417 +	236
MGF FUT	MIN GSL .1 PLTS CRGS CIFNWE VS GSL							
NOV18	----	----	-5.079 + 1.006		----	----	10	UNCH
JAN19	----	----	-3.000 + 1.000		----	----	20	UNCH
FEB19	----	----	-3.125 + 0.875		----	----	20	UNCH
TOTAL MGF FUT							50	
MJN FUT	MIN JAPAN C&F NAPHTHA PLATTS							
NOV18	----	----	550.074 + 4.139		----	----	685	UNCH
DEC18	----	----	545.817 + 7.264		----	190	604 +	25
JAN19	----	----	547.326 + 6.493		----	----	120	UNCH
FEB19	----	----	546.961 + 6.046		----	----	110	UNCH
MAR19	----	----	545.816 + 5.300		----	----	110	UNCH
MAY19	----	----	543.515 + 5.242		----	----	70	UNCH
JUN19	----	----	542.821 + 5.204		----	----	10	UNCH
JUL19	----	----	542.414 + 4.971		----	----	20	UNCH
AUG19	----	----	542.250 + 4.940		----	----	20	UNCH
SEP19	----	----	542.035 + 4.659		----	----	20	UNCH
OCT19	----	----	541.720 + 4.506		----	----	30	UNCH
NOV19	----	----	541.595 + 4.603		----	----	30	UNCH
DEC19	----	----	541.106 + 4.535		----	----	30	UNCH
TOTAL MJN FUT						190	1859 +	25
MJC FUT	MIN JETKERO CRGOS CIF NWE VS GASOIL							
NOV18	----	----	40.129 + 2.515		----	----	15	UNCH
DEC18	----	----	46.580 + 2.040		----	----	95	UNCH
JAN19	----	----	48.250 + 1.120		----	----	15	UNCH
FEB19	----	----	50.000 + 0.620		----	----	15	UNCH
MAR19	----	----	49.380 + 0.500		----	----	15	UNCH
APR19	----	----	50.510 + 0.010		----	----	5	UNCH
MAY19	----	----	50.500 UNCH		----	----	5	UNCH
JUN19	----	----	50.500 UNCH		----	----	30	UNCH
JUL19	----	----	50.750 + 0.250		----	----	45	UNCH
AUG19	----	----	50.750 + 0.240		----	----	45	UNCH
SEP19	----	----	50.750 + 0.250		----	----	20	UNCH
JAN20	----	----	53.000 + 0.250		----	----	5	UNCH
FEB20	----	----	53.000 + 0.240		----	----	5	UNCH

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	MIN	JETKERO	CRGOS	CIF	NWE	VS	GASOIL	SETT. PRICE & PT. CHGE	GLOBALX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
MJC FUT	MIN JETKERO CRGOS CIF NWE VS GASOIL												
MAR20	----				----			53.000 + 0.250	----	----	5	UNCH	
APR20	----				----			53.000 + 0.380	----	----	5	UNCH	
MAY20	----				----			53.000 + 0.370	----	----	5	UNCH	
JUN20	----				----			53.000 + 0.370	----	----	5	UNCH	
JUL20	----				----			53.000 + 0.370	----	----	5	UNCH	
AUG20	----				----			53.000 + 0.370	----	----	5	UNCH	
SEP20	----				----			53.000 + 0.380	----	----	5	UNCH	
OCT20	----				----			53.000 + 0.370	----	----	5	UNCH	
NOV20	----				----			53.000 + 0.370	----	----	5	UNCH	
DEC20	----				----			53.000 + 0.380	----	----	5	UNCH	
TOTAL MJC FUT											365		
MTB FUT	MIN SPORE FUELOIL380CST(PLTS) BALMO												
02NOV18	----				----			451.091 + 1.812	----	----	5	UNCH	
05NOV18	----				----			449.619 + 1.907	----	----	8	UNCH	
09NOV18	----				----			444.004 + 2.265	----	----	5	UNCH	
12NOV18	----				----			442.919 + 2.416	----	----	5	UNCH	
13NOV18	----				----			441.324 + 2.588	----	----	13	UNCH	
14NOV18	----				----			440.428 + 2.787	----	----	9	UNCH	
15NOV18	----				----			441.106 + 3.020	----	----	3	UNCH	
TOTAL MTB FUT											48		
MGN FUT	MIN ULSD 10PPM CRGS CIF NWE VS GSL												
NOV18	----				----			8.322 - 1.394	----	----	62	UNCH	
DEC18	----				----			5.375 - 0.125	----	----	147	UNCH	
JAN19	----				----			4.000 UNCH	----	----	15	UNCH	
FEB19	----				----			4.000 - 0.125	----	----	5	UNCH	
MAR19	----				----			4.042 - 0.021	----	----	5	UNCH	
JUL19	----				----			4.417 UNCH	----	----	10	UNCH	
AUG19	----				----			4.416 - 0.001	----	----	10	UNCH	
SEP19	----				----			4.417 UNCH	----	----	10	UNCH	
OCT19	----				----			4.833 + 0.167	----	----	10	UNCH	
NOV19	----				----			4.834 + 0.167	----	----	10	UNCH	
DEC19	----				----			4.833 + 0.167	----	----	10	UNCH	
JAN20	----				----			6.000 UNCH	----	----	5	UNCH	
FEB20	----				----			6.000 UNCH	----	----	5	UNCH	
MAR20	----				----			6.000 UNCH	----	----	5	UNCH	
APR20	----				----			6.000 UNCH	----	----	5	UNCH	
MAY20	----				----			6.000 UNCH	----	----	5	UNCH	
JUN20	----				----			6.000 UNCH	----	----	5	UNCH	
JUL20	----				----			6.000 UNCH	----	----	5	UNCH	
AUG20	----				----			6.000 UNCH	----	----	5	UNCH	
SEP20	----				----			6.000 UNCH	----	----	5	UNCH	
OCT20	----				----			6.000 UNCH	----	----	5	UNCH	
NOV20	----				----			6.000 UNCH	----	----	5	UNCH	
DEC20	----				----			6.000 UNCH	----	----	5	UNCH	
TOTAL MGN FUT											354		
MMF FUT	MINI 3.5% FUEL OIL CAR MED												
NOV18	----				----			408.487 + 0.892	----	----	35	UNCH	
DEC18	----				----			384.398 + 1.796	----	----	35	UNCH	
JAN19	----				----			379.625 + 1.516	----	----	20	UNCH	
FEB19	----				----			374.598 + 1.243	----	----	16	UNCH	
MAR19	----				----			369.832 + 1.244	----	----	7	UNCH	
APR19	----				----			365.786 + 1.118	----	----	2	UNCH	
MAY19	----				----			360.969 + 0.951	----	----	2	UNCH	
JUN19	----				----			356.109 + 0.761	----	----	2	UNCH	
OCT19	----				----			319.300 + 0.450	----	----	5	UNCH	
TOTAL MMF FUT											124		
MAE FUT	MINI ARGUS PROPANE FAR EAST IDX												
NOV18	----				----			513.342 + 5.175	----	----	144	UNCH	
DEC18	----				----			514.192 + 10.639	----	10	230 + 10		
JAN19	----				----			510.451 + 9.743	----	10	40	UNCH	
FEB19	----				----			503.711 + 8.796	----	----	44	UNCH	
MAR19	----				----			487.691 + 7.550	----	----	20	UNCH	
APR19	----				----			473.786 + 7.232	----	----	36	UNCH	
MAY19	----				----			467.390 + 7.117	----	----	36	UNCH	
JUN19	----				----			466.196 + 6.579	----	----	36	UNCH	
JUL19	----				----			468.664 + 6.596	----	----	12	UNCH	
AUG19	----				----			471.250 + 6.190	----	----	12	UNCH	
SEP19	----				----			474.785 + 5.909	----	----	12	UNCH	
OCT19	----				----			478.595 + 5.881	----	----	12	UNCH	
NOV19	----				----			482.720 + 5.978	----	----	12	UNCH	
DEC19	----				----			486.856 + 6.160	----	----	12	UNCH	
TOTAL MAE FUT										20	658 + 10		
TO FUT	MINI EU 1%FO BARGE FOB RDAM FUT												

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	GLOBEX OPEN		GLOBEX HIGH/LOW		SETT. PRICE & PT. CHGE		GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
T0 FUT	MINI	EU 1%FO	BARGE	FOB	RDAM	FUT				
NOV18		----			----		409.710 + 0.115	----	----	18 UNCH
DEC18		----			----		393.523 + 1.721	----	----	18 UNCH
OCT19		----			----		379.300 + 1.200	----	----	3 UNCH
NOV19		----			----		385.550 + 0.700	----	----	3 UNCH
DEC19		----			----		385.175 + 1.450	----	----	3 UNCH
TOTAL T0 FUT										45
0B FUT	MINI	EU 1%FO	CARGO	FOB	NWE	FUT				
DEC18		----			----		397.273 + 1.721	----	----	40 UNCH
TOTAL 0B FUT										40
0D FUT	MINI	EU 3.5%FO	BARGE	FOB	RDAM	FUT				
NOV18		----			----		409.407 + 0.187	----	----	632 UNCH
DEC18		----			----		390.898 + 1.746	30	777 + 30	UNCH
JAN19		----			----		384.175 + 1.516	----	236	UNCH
FEB19		----			----		379.148 + 1.243	----	261	UNCH
MAR19		----			----		374.394 + 1.243	----	198	UNCH
APR19		----			----		369.723 + 1.117	----	169	UNCH
MAY19		----			----		364.886 + 0.951	----	174	UNCH
JUN19		----			----		359.942 + 0.761	----	161	UNCH
JUL19		----			----		353.848 + 0.572	----	163	UNCH
AUG19		----			----		345.800 + 0.575	----	181	UNCH
SEP19		----			----		334.925 + 0.450	----	190	UNCH
OCT19		----			----		321.425 + 0.450	----	154	UNCH
NOV19		----			----		310.425 + 0.450	----	138	UNCH
DEC19		----			----		300.425 + 0.575	----	148	UNCH
JAN20		----			----		292.925 + 0.575	----	10	UNCH
FEB20		----			----		291.425 + 0.450	----	9	UNCH
MAR20		----			----		290.800 + 0.325	----	9	UNCH
APR20		----			----		290.800 + 0.325	----	19	UNCH
MAY20		----			----		291.425 + 0.325	----	9	UNCH
JUN20		----			----		292.425 + 0.325	----	9	UNCH
JUL20		----			----		293.425 + 0.200	----	9	UNCH
AUG20		----			----		294.675 + 0.200	----	9	UNCH
SEP20		----			----		295.925 + 0.200	----	9	UNCH
OCT20		----			----		297.050 + 0.075	----	19	UNCH
NOV20		----			----		298.300 - 0.050	----	29	UNCH
DEC20		----			----		299.550 - 0.175	----	19	UNCH
TOTAL 0D FUT								30	3741 + 30	
MUD FUT	MINI	EUR	DIESEL10PPM	VS	ICE	GS				
NOV18		----			----		10.784 - 1.182	----	----	23 UNCH
DEC18		----			----		2.666 - 0.084	----	----	33 UNCH
TOTAL MUD FUT										56
MEN FUT	MINI	EURO	NAPHTHA	BALMO						
02NOV18		----		----			525.997 + 3.330	----	----	10 UNCH
06NOV18		----		----			521.918 + 3.681	----	----	60 UNCH
07NOV18		----		----			520.260 + 3.885	----	----	65 UNCH
08NOV18		----		----			518.996 + 4.113	----	----	50 UNCH
09NOV18		----		----			518.308 + 4.370	----	----	8 UNCH
12NOV18		----		----			518.146 + 4.662	----	----	55 UNCH
13NOV18		----		----			517.209 + 4.994	----	----	15 UNCH
TOTAL MEN FUT										263
MEO FUT	MINI	GAS	EUROBOB	OXY	BARGES					
NOV18		----		----			578.656 + 2.787	----	----	1334 + 32
DEC18		----		----			553.986 + 8.152	36	1142	UNCH
JAN19		----		----			555.328 + 7.712	80	641 + 40	
FEB19		----		----			559.042 + 7.384	----	196	UNCH
MAR19		----		----			563.037 + 7.081	----	172	UNCH
APR19		----		----			605.846 + 6.566	----	40	UNCH
MAY19		----		----			608.980 + 5.338	----	30	UNCH
JAN20		----		----			573.731 + 4.144	----	30	UNCH
TOTAL MEO FUT								116	3585 + 72	
MEB FUT	MINI	GAS	EUROBOB	OXY	NWE	ARGS	BALMO			
02NOV18		----		----			575.853 + 2.919	----	----	15 UNCH
06NOV18		----		----			572.101 + 3.227	----	----	201 UNCH
14NOV18		----		----			562.552 + 4.716	----	----	33 UNCH
15NOV18		----		----			562.098 + 5.109	----	----	75 UNCH
16NOV18		----		----			562.243 + 5.574	----	----	23 UNCH
TOTAL MEB FUT										347
MXB FUT	MINI	RBOB	V. EBOB(ARGUS)	NWE	BRGS					
NOV18		----		----			-0.0449 + 0.0017	----	----	814 UNCH
DEC18		----		----			-0.0152 - 0.0014	----	----	871 UNCH
JAN19		----		----			-0.0129 + 0.0003	----	----	508 UNCH
FEB19		----		----			-0.0029 + 0.0019	----	----	322 UNCH
MAR19		----		----			0.1845 + 0.0010	----	----	350 UNCH

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	MINI	RBOB V.	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
MXB FUT	MINI RBOB V. EBOB(ARGUS) NWE BRGS								
APR19	----	----	----	0.0744 + 0.0011	----	----	66	UNCH	
MAY19	----	----	----	0.0667 + 0.0035	----	----	36	UNCH	
JUN19	----	----	----	0.0572 + 0.0037	----	----	36	UNCH	
TOTAL MXB FUT							3003		
MTS FUT	MINI SINGAPORE 380CST FUEL OIL								
NOV18	----	----	----	452.743 + 1.726	----	18	1531 +	18	
DEC18	----	----	----	430.148 + 2.871	----	175	1355 +	78	
JAN19	----	----	----	418.863 + 1.891	----	38	813 -	2	
FEB19	----	----	----	410.286 + 1.443	----	28	532 +	28	
MAR19	----	----	----	404.094 + 1.256	----	18	580 +	18	
APR19	----	----	----	398.840 + 1.192	----	8	427 +	8	
MAY19	----	----	----	393.061 + 1.001	----	28	355 +	28	
JUN19	----	----	----	387.267 + 0.861	----	8	379 +	8	
JUL19	----	----	----	380.898 + 0.522	----	8	249 +	8	
AUG19	----	----	----	373.725 + 0.525	----	28	259 +	28	
SEP19	----	----	----	364.225 + 0.400	----	28	258 +	28	
OCT19	----	----	----	350.725 + 0.400	----	8	157 +	8	
NOV19	----	----	----	340.725 + 0.400	----	8	131	UNCH	
DEC19	----	----	----	329.975 + 0.525	----	8	168 +	8	
JAN20	----	----	----	319.725 + 0.525	----	----	19	UNCH	
FEB20	----	----	----	317.225 + 0.400	----	----	15	UNCH	
MAR20	----	----	----	315.600 + 0.275	----	----	15	UNCH	
APR20	----	----	----	315.675 + 0.242	----	----	7	UNCH	
MAY20	----	----	----	315.750 + 0.208	----	----	7	UNCH	
JUN20	----	----	----	316.307 + 0.110	----	----	7	UNCH	
JUL20	----	----	----	316.864 + 0.011	----	----	7	UNCH	
AUG20	----	----	----	317.421 - 0.087	----	----	7	UNCH	
SEP20	----	----	----	318.177 - 0.219	----	----	7	UNCH	
OCT20	----	----	----	318.933 - 0.350	----	----	2	UNCH	
NOV20	----	----	----	319.690 - 0.481	----	----	2	UNCH	
DEC20	----	----	----	320.863 - 0.612	----	----	2	UNCH	
TOTAL MTS FUT						409	7291 +	264	
5L FUT	MINI SINGAPORE FO 180 CST BALMO FUT								
08NOV18	----	----	----	450.288 + 2.125	----	----	40	UNCH	
TOTAL 5L FUT							40		
0F FUT	MINI SINGAPORE FO 180 CST FUT								
NOV18	----	----	----	456.828 + 1.719	----	----	222	UNCH	
DEC18	----	----	----	434.898 + 2.746	----	----	132	UNCH	
JAN19	----	----	----	424.175 + 1.766	----	20	40 +	20	
APR19	----	----	----	407.423 + 1.192	----	----	20	UNCH	
MAY19	----	----	----	402.186 + 1.001	----	----	20	UNCH	
JUN19	----	----	----	396.892 + 0.861	----	----	40	UNCH	
JUL19	----	----	----	391.148 + 0.522	----	----	5	UNCH	
AUG19	----	----	----	385.350 + 0.525	----	----	5	UNCH	
SEP19	----	----	----	377.225 + 0.400	----	----	5	UNCH	
OCT19	----	----	----	365.975 + 0.400	----	----	15	UNCH	
NOV19	----	----	----	357.225 + 0.400	----	----	15	UNCH	
DEC19	----	----	----	347.975 + 0.525	----	----	15	UNCH	
JAN20	----	----	----	340.225 + 0.525	----	----	25	UNCH	
FEB20	----	----	----	337.975 + 0.400	----	----	25	UNCH	
MAR20	----	----	----	336.600 + 0.275	----	----	25	UNCH	
TOTAL 0F FUT						20	609 +	20	
MSG FUT	MINI SINGAPORE GASOIL PLATS FUT								
NOV18	----	----	----	85.394 - 0.316	----	----	270	UNCH	
DEC18	----	----	----	83.128 - 0.702	----	10	60 +	10	
AUG19	----	----	----	83.478 - 0.501	----	----	8	UNCH	
TOTAL MSG FUT						10	338 +	10	
1N FUT	MOGAS92 UNLEADED (PLATTS)								
NOV18	----	----	----	69.603 + 0.553	----	----	4242	UNCH	
DEC18	----	----	----	68.130 + 1.053	----	----	3158	UNCH	
JAN19	----	----	----	68.371 + 1.031	----	----	1760	UNCH	
FEB19	----	----	----	68.727 + 0.917	----	----	660	UNCH	
MAR19	----	----	----	69.111 + 0.810	----	----	965	UNCH	
APR19	----	----	----	69.333 + 0.738	----	----	842	UNCH	
MAY19	----	----	----	69.529 + 0.605	----	----	1050	UNCH	
JUN19	----	----	----	69.479 + 0.513	----	----	175	UNCH	
SEP19	----	----	----	69.033 + 0.472	----	----	100	UNCH	
DEC19	----	----	----	68.045 + 0.419	----	----	300	UNCH	
TOTAL 1N FUT							13252		
1P FUT	MOGAS92 UNLEADED (PLTS) BLM SW								
02NOV18	----	----	----	69.245 + 0.581	----	----	50	UNCH	
TOTAL 1P FUT							50		
51 FUT	MT BELV LDH PROPV VS EUR CIF ARA SW								

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51 FUT	MT BELV LDH PROP	VS EUR CIF ARA SW						
NOV18	----	----	-62.385 + 0.689		----	----	1	UNCH
DEC18	----	----	-54.715 + 3.689		----	----	1	UNCH
TOTAL 51 FUT							2	
MBL FUT	MT BELVIEU LDH ISO-BUTANE(OPIS)							
NOV18	----	----	0.90659 + 0.00156		----	----	5	UNCH
DEC18	----	----	0.89750 + 0.02625		----	----	5	UNCH
JAN19	----	----	0.89500 + 0.03250		----	----	5	UNCH
FEB19	----	----	0.88625 + 0.03250		----	----	5	UNCH
MAR19	----	----	0.85000 + 0.03000		----	----	5	UNCH
TOTAL MBL FUT							25	
NOB FUT	NAPHTHA (PLATTS) NWE CRACK							
NOV18	----	----	-9.168 + 0.287		----	----	488	UNCH
DEC18	----	----	-8.150 + 0.605		----	10	230 +	5
JAN19	----	----	-8.092 + 0.552		----	7	331 -	6
FEB19	----	----	-8.193 + 0.484		----	7	311 -	6
MAR19	----	----	-8.397 + 0.410		----	7	342 -	6
APR19	----	----	-8.610 + 0.422		----	5	136 +	5
MAY19	----	----	-8.677 + 0.421		----	5	136 +	5
JUN19	----	----	-8.643 + 0.446		----	5	136 +	5
JUL19	----	----	-8.554 + 0.448		----	----	47	UNCH
AUG19	----	----	-8.432 + 0.470		----	----	47	UNCH
SEP19	----	----	-8.314 + 0.487		----	----	47	UNCH
OCT19	----	----	-8.207 + 0.493		----	----	52	UNCH
NOV19	----	----	-8.138 + 0.514		----	----	52	UNCH
DEC19	----	----	-8.083 + 0.516		----	----	52	UNCH
JAN20	----	----	-8.081 + 0.514		----	1	27 +	1
FEB20	----	----	-8.112 + 0.512		----	1	27 +	1
MAR20	----	----	-8.209 + 0.506		----	1	27 +	1
APR20	----	----	-8.352 + 0.470		----	1	27 +	1
MAY20	----	----	-8.398 + 0.454		----	1	27 +	1
JUN20	----	----	-8.446 + 0.439		----	1	27 +	1
JUL20	----	----	-8.478 + 0.383		----	1	27 +	1
AUG20	----	----	-8.451 + 0.368		----	1	27 +	1
SEP20	----	----	-8.408 + 0.369		----	1	27 +	1
OCT20	----	----	-8.336 + 0.409		----	1	27 +	1
NOV20	----	----	-8.282 + 0.430		----	1	27 +	1
DEC20	----	----	-8.287 + 0.431		----	1	27 +	1
JAN21	----	----	-7.800 UNCH		----	----	10	UNCH
FEB21	----	----	-7.800 UNCH		----	----	10	UNCH
MAR21	----	----	-7.800 UNCH		----	----	10	UNCH
APR21	----	----	-7.800 UNCH		----	----	10	UNCH
MAY21	----	----	-7.800 UNCH		----	----	10	UNCH
JUN21	----	----	-7.800 UNCH		----	----	10	UNCH
JUL21	----	----	-7.800 UNCH		----	----	10	UNCH
AUG21	----	----	-7.800 UNCH		----	----	10	UNCH
SEP21	----	----	-7.800 UNCH		----	----	10	UNCH
OCT21	----	----	-7.800 UNCH		----	----	10	UNCH
NOV21	----	----	-7.800 UNCH		----	----	10	UNCH
DEC21	----	----	-7.800 UNCH		----	----	10	UNCH
TOTAL NOB FUT						58	2851 +	14
88 FUT	NWE EUR FUEL OIL HGHLOW SULF BALMO							
13NOV18	----	----	5.137 + 0.262		----	----	20	UNCH
TOTAL 88 FUT							20	
FOC FUT	NY 3% FUEL OIL V GULF COAST NO6 3%							
NOV18	----	----	3.076 + 0.053		----	----	450	UNCH
DEC18	----	----	1.500 - 0.175		----	----	100	UNCH
TOTAL FOC FUT							550	
H1 FUT	NY 3.0% FUEL OIL (PLATTS)							
NOV18	----	----	66.366 + 0.157		----	----	100	UNCH
TOTAL H1 FUT							100	
JTB FUT	NY BUCKEYE JET FUEL V. NY HR BALMO							
02NOV18	----	----	-0.0232 + 0.0022		----	----	50	UNCH
05NOV18	----	----	-0.0239 + 0.0024		----	----	100	UNCH
07NOV18	----	----	-0.0256 + 0.0027		----	----	150	UNCH
08NOV18	----	----	-0.0255 + 0.0028		----	----	100	UNCH
12NOV18	----	----	-0.0246 + 0.0032		----	----	50	UNCH
13NOV18	----	----	-0.0240 + 0.0035		----	----	150	UNCH
15NOV18	----	----	-0.0208 + 0.0042		----	----	175	UNCH
TOTAL JTB FUT							775	
JET FUT	NY BUCKEYE JET FUEL VS NY HARB ULSD							
NOV18	----	----	-0.0229 + 0.0021		----	----	1425	UNCH
DEC18	----	----	-0.0241 - 0.0007		----	100	875	UNCH
JAN19	----	----	-0.0141 NEW		----	100	100 +	100

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
TOTAL JET FUT						200	2400 +	100
NLS FUT	NY HARBOR LOW SULPUR GAS 1000MBBL							
NOV18	----	----	0.0368 + 0.0069		----	----	115	UNCH
DEC18	----	----	0.0561 + 0.0133		----	----	100	UNCH
TOTAL NLS FUT							215	
MM FUT	NY HARBOR RESIDUAL FUEL 1.0% S							
NOV18	----	----	67.04 + 0.19		----	----	213	UNCH
DEC18	----	----	63.65 + 0.30		----	25	332 +	25
JAN19	----	----	62.73 + 0.28		----	----	520	UNCH
FEB19	----	----	61.85 + 0.25		----	10	285 +	10
MAR19	----	----	61.03 + 0.20		----	----	296	UNCH
TOTAL MM FUT						35	1646 +	35
ML FUT	NY HARBOR RESIDUAL FUEL CRACK							
JAN19	----	----	5.79 + 0.31		----	----	50	UNCH
TOTAL ML FUT							50	
7Y FUT	NY ULSD(ARGUS) VS HO SPREAD							
NOV18	----	----	0.0011 UNCH		----	----	39	UNCH
DEC18	----	----	0.0050 UNCH		----	----	47	UNCH
JAN19	----	----	0.0060 UNCH		----	----	16	UNCH
FEB19	----	----	0.0060 UNCH		----	----	15	UNCH
MAR19	----	----	0.0060 UNCH		----	----	10	UNCH
APR19	----	----	0.0060 UNCH		----	----	1	UNCH
MAY19	----	----	0.0060 UNCH		----	----	1	UNCH
TOTAL 7Y FUT							129	
VR FUT	NY1% VS GC SPREAD							
NOV18	----	----	3.746 + 0.081		----	----	155	UNCH
DEC18	----	----	2.750 + 0.025		----	----	890	UNCH
JAN19	----	----	2.675 UNCH		----	----	240	UNCH
FEB19	----	----	2.600 + 0.025		----	----	380	UNCH
MAR19	----	----	2.525 - 0.025		----	----	270	UNCH
APR19	----	----	2.450 - 0.025		----	----	45	UNCH
MAY19	----	----	2.450 - 0.025		----	----	45	UNCH
JUN19	----	----	2.725 + 0.025		----	----	45	UNCH
TOTAL VR FUT							2070	
HK FUT	NYH NO 2 CRACK SPREAD CAL							
NOV18	----	----	30.38 - 0.01		----	----	225	UNCH
DEC18	----	----	30.06 + 0.01		----	----	225	UNCH
JAN19	----	----	29.48 + 0.01		----	----	317	UNCH
FEB19	----	----	28.89 - 0.03		----	----	317	UNCH
MAR19	----	----	28.09 - 0.05		----	----	317	UNCH
APR19	----	----	27.68 - 0.06		----	----	332	UNCH
MAY19	----	----	27.47 - 0.07		----	----	332	UNCH
JUN19	----	----	27.61 - 0.10		----	----	332	UNCH
JUL19	----	----	27.85 - 0.13		----	----	205	UNCH
AUG19	----	----	28.20 - 0.14		----	----	205	UNCH
SEP19	----	----	28.53 - 0.17		----	----	205	UNCH
OCT19	----	----	28.84 - 0.17		----	----	205	UNCH
NOV19	----	----	29.12 - 0.14		----	----	205	UNCH
DEC19	----	----	29.33 - 0.11		----	----	205	UNCH
JAN20	----	----	29.26 - 0.12		----	----	35	UNCH
FEB20	----	----	29.07 - 0.15		----	----	35	UNCH
MAR20	----	----	28.65 - 0.20		----	----	35	UNCH
APR20	----	----	28.48 - 0.18		----	----	5	UNCH
MAY20	----	----	28.49 - 0.17		----	----	5	UNCH
JUN20	----	----	28.63 - 0.16		----	----	5	UNCH
JUL20	----	----	28.75 - 0.15		----	----	5	UNCH
AUG20	----	----	28.79 - 0.15		----	----	5	UNCH
SEP20	----	----	28.70 - 0.15		----	----	5	UNCH
OCT20	----	----	28.74 - 0.14		----	----	5	UNCH
NOV20	----	----	28.84 - 0.12		----	----	5	UNCH
DEC20	----	----	29.02 - 0.10		----	----	5	UNCH
TOTAL HK FUT							3777	
BH FUT	NYMEX HEATING OIL FUTURES							
DEC18	----	----	2.0737 - 0.0004		----	----	19	UNCH
JAN19	----	----	2.0669 - 0.0001		----	----	13	UNCH
FEB19	----	----	2.0576 - 0.0005		----	----	13	UNCH
MAR19	----	----	2.0482 - 0.0014		----	----	13	UNCH
APR19	----	----	2.0333 - 0.0019		----	----	13	UNCH
MAY19	----	----	2.0274 - 0.0022		----	----	13	UNCH
JUN19	----	----	2.0256 - 0.0028		----	----	13	UNCH
JUL19	----	----	2.0312 - 0.0036		----	----	13	UNCH
AUG19	----	----	2.0391 - 0.0042		----	----	13	UNCH
SEP19	----	----	2.0490 - 0.0048		----	----	13	UNCH
OCT19	----	----	2.0582 - 0.0055		----	----	13	UNCH

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BH FUT NYMEX HEATING OIL FUTURES								
NOV19	----	----	2.0665 - 0.0059		----	----	13	UNCH
DEC19	----	----	2.0734 - 0.0056		----	----	13	UNCH
TOTAL BH FUT							175	
MP FUT NYMEX NY HARBOR HEAT OIL CLNDR								
NOV18	----	----	2.1172 - 0.0002		----	----	3462	UNCH
DEC18	----	----	2.0669 - 0.0001		----	----	3453	UNCH
JAN19	----	----	2.0576 - 0.0005		----	----	570	UNCH
FEB19	----	----	2.0482 - 0.0014		----	----	562	UNCH
MAR19	----	----	2.0333 - 0.0019		----	----	534	UNCH
APR19	----	----	2.0274 - 0.0022		----	----	340	UNCH
MAY19	----	----	2.0256 - 0.0028		----	----	386	UNCH
JUN19	----	----	2.0312 - 0.0036		----	----	389	UNCH
JUL19	----	----	2.0391 - 0.0042		----	----	330	UNCH
AUG19	----	----	2.0490 - 0.0048		----	----	330	UNCH
SEP19	----	----	2.0582 - 0.0055		----	----	327	UNCH
OCT19	----	----	2.0665 - 0.0059		----	----	247	UNCH
NOV19	----	----	2.0734 - 0.0056		----	----	86	UNCH
DEC19	----	----	2.0770 - 0.0054		----	----	84	UNCH
JAN20	----	----	2.0743 - 0.0056		----	----	121	UNCH
FEB20	----	----	2.0689 - 0.0066		----	----	121	UNCH
MAR20	----	----	2.0579 - 0.0082		----	----	122	UNCH
APR20	----	----	2.0529 - 0.0082		----	----	122	UNCH
MAY20	----	----	2.0524 - 0.0082		----	----	125	UNCH
JUN20	----	----	2.0545 - 0.0082		----	----	125	UNCH
JUL20	----	----	2.0560 - 0.0084		----	----	128	UNCH
AUG20	----	----	2.0559 - 0.0086		----	----	127	UNCH
SEP20	----	----	2.0531 - 0.0088		----	----	127	UNCH
OCT20	----	----	2.0534 - 0.0090		----	----	123	UNCH
NOV20	----	----	2.0551 - 0.0092		----	----	123	UNCH
DEC20	----	----	2.0571 - 0.0094		----	----	119	UNCH
TOTAL MP FUT							12583	
RT FUT NYMEX RBOB GASOLINE FUTURES								
DEC18	----	----	1.5770 + 0.0204		----	----	7	UNCH
JAN19	----	----	1.5682 + 0.0218		----	----	8	UNCH
FEB19	----	----	1.5744 + 0.0224		----	----	8	UNCH
MAR19	----	----	1.5950 + 0.0230		----	----	8	UNCH
APR19	----	----	1.7938 + 0.0212		----	----	8	UNCH
MAY19	----	----	1.8061 + 0.0199		----	----	8	UNCH
JUN19	----	----	1.8073 + 0.0187		----	----	8	UNCH
JUL19	----	----	1.8000 + 0.0178		----	----	8	UNCH
AUG19	----	----	1.7853 + 0.0171		----	----	8	UNCH
SEP19	----	----	1.7613 + 0.0162		----	----	8	UNCH
OCT19	----	----	1.6413 + 0.0158		----	----	8	UNCH
NOV19	----	----	1.6135 + 0.0137		----	----	8	UNCH
DEC19	----	----	1.5938 + 0.0094		----	----	8	UNCH
TOTAL RT FUT							103	
SF3 FUT NYM-SINGAPORE FUEL OIL 380CST CRK S								
NOV18	----	----	2.803 + 0.202		----	----	6	UNCH
DEC18	----	----	0.692 + 0.311		----	----	6	UNCH
APR19	----	----	-4.710 + 0.077		----	----	9	UNCH
MAY19	----	----	-5.586 + 0.059		----	----	9	UNCH
JUN19	----	----	-6.386 + 0.067		----	----	9	UNCH
TOTAL SF3 FUT							39	
7N FUT PREM UNL GAS 10 PPM BALMO								
16NOV18	----	----	592.444 + 7.025		----	----	3	UNCH
TOTAL 7N FUT							3	
7L FUT PREM UNL GAS 10 PPM (PLTS) RDM								
NOV18	----	----	607.790 + 3.512		----	----	52	UNCH
DEC18	----	----	583.557 + 8.973		----	----	52	UNCH
TOTAL 7L FUT							104	
3G FUT PREMIUM UNLD 10P FOB MED								
NOV18	----	----	583.235 + 2.787		----	----	52	UNCH
DEC18	----	----	565.486 + 7.152		----	----	70	UNCH
JAN19	----	----	567.828 + 7.712		----	----	45	UNCH
FEB19	----	----	572.542 + 7.384		----	----	45	UNCH
MAR19	----	----	580.037 + 7.081		----	----	45	UNCH
APR19	----	----	601.096 + 6.566		----	----	15	UNCH
MAY19	----	----	604.230 + 5.338		----	----	15	UNCH
JUN19	----	----	604.975 + 4.936		----	----	15	UNCH
JUL19	----	----	601.683 + 4.830		----	----	30	UNCH
AUG19	----	----	597.884 + 4.668		----	----	30	UNCH
SEP19	----	----	592.215 + 3.966		----	----	30	UNCH
OCT19	----	----	581.555 + 3.488		----	----	15	UNCH

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
3G FUT	PREMIUM UNLD 10P FOB MED							
NOV19	----	----	573.615 + 2.939		----	----	15	UNCH
DEC19	----	----	569.236 + 2.654		----	----	15	UNCH
TOTAL 3G FUT							437	
8G FUT	PREMIUM UNLEAD 10PPM FOB BLMO							
16NOV18	----	----	569.243 + 5.574		----	----	5	UNCH
TOTAL 8G FUT							5	
RL FUT	RBOB CALENDAR FUTURE							
NOV18	----	----	1.6091 + 0.0097		----	----	5654	UNCH
DEC18	----	----	1.5682 + 0.0218		----	----	2419	UNCH
JAN19	----	----	1.5744 + 0.0224		----	----	1901	UNCH
FEB19	----	----	1.5950 + 0.0230		----	----	2011	UNCH
MAR19	----	----	1.7938 + 0.0212		----	----	1095	UNCH
APR19	----	----	1.8061 + 0.0199		----	----	457	UNCH
MAY19	----	----	1.8073 + 0.0187		----	----	442	UNCH
JUN19	----	----	1.8000 + 0.0178		----	----	548	UNCH
JUL19	----	----	1.7853 + 0.0171		----	----	123	UNCH
AUG19	----	----	1.7613 + 0.0162		----	----	123	UNCH
SEP19	----	----	1.6413 + 0.0158		----	----	153	UNCH
OCT19	----	----	1.6135 + 0.0137		----	----	272	UNCH
NOV19	----	----	1.5938 + 0.0094		----	----	272	UNCH
DEC19	----	----	1.5868 + 0.0067		----	----	272	UNCH
JAN20	----	----	1.5924 + 0.0053		----	----	65	UNCH
FEB20	----	----	1.6073 + 0.0050		----	----	65	UNCH
TOTAL RL FUT							15872	
RM FUT	RBOB CRACK SPREAD							
NOV18	----	----	9.04 + 0.41		----	----	403	UNCH
DEC18	----	----	9.11 + 0.92		----	25	393	- 10
JAN19	----	----	9.18 + 0.97		----	----	423	UNCH
FEB19	----	----	9.86 + 1.00		----	----	423	UNCH
MAR19	----	----	18.03 + 0.92		----	----	443	UNCH
APR19	----	----	18.39 + 0.87		----	----	363	UNCH
MAY19	----	----	18.30 + 0.83		----	----	363	UNCH
JUN19	----	----	17.90 + 0.80		----	----	363	UNCH
JUL19	----	----	17.19 + 0.77		----	----	233	UNCH
AUG19	----	----	16.11 + 0.74		----	----	233	UNCH
SEP19	----	----	11.02 + 0.73		----	----	233	UNCH
OCT19	----	----	9.82 + 0.66		----	----	203	UNCH
NOV19	----	----	8.98 + 0.50		----	----	203	UNCH
DEC19	----	----	8.75 + 0.41		----	----	203	UNCH
TOTAL RM FUT						25	4482	- 10
EXR FUT	RBOB GAS VS EUROBOB(ARGUS) NWE BRGS							
NOV18	----	----	-0.0449 + 0.0017		----	----	896	UNCH
DEC18	----	----	-0.0152 - 0.0014		----	54	619	+ 3
JAN19	----	----	-0.0129 + 0.0003		----	----	249	UNCH
FEB19	----	----	-0.0029 + 0.0019		----	----	262	UNCH
MAR19	----	----	0.1845 + 0.0010		----	----	151	UNCH
APR19	----	----	0.0744 + 0.0011		----	15	329	+ 15
MAY19	----	----	0.0667 + 0.0035		----	----	224	UNCH
JUN19	----	----	0.0572 + 0.0037		----	----	235	UNCH
JUL19	----	----	0.0498 + 0.0033		----	----	58	UNCH
AUG19	----	----	0.0367 + 0.0029		----	----	58	UNCH
SEP19	----	----	-0.0671 + 0.0045		----	----	58	UNCH
OCT19	----	----	-0.0187 + 0.0038		----	----	22	UNCH
NOV19	----	----	-0.0157 + 0.0010		----	----	21	UNCH
DEC19	----	----	-0.0109 - 0.0008		----	----	21	UNCH
TOTAL EXR FUT						69	3203	+ 18
RBB FUT	RBOB GAS VS. BRENT CRCK SPRD							
NOV18	----	----	-0.913 + 0.337		----	----	2477	UNCH
DEC18	----	----	-1.184 + 0.774		----	----	2291	UNCH
JAN19	----	----	-1.091 + 0.791		----	50	776	- 50
FEB19	----	----	-0.356 + 0.827		----	50	780	- 50
MAR19	----	----	7.877 + 0.762		----	150	760	- 16
APR19	----	----	8.337 + 0.726		----	----	610	UNCH
MAY19	----	----	8.422 + 0.688		----	75	700	- 25
JUN19	----	----	8.227 + 0.679		----	----	560	UNCH
JUL19	----	----	7.759 + 0.679		----	----	275	UNCH
AUG19	----	----	6.891 + 0.652		----	----	275	UNCH
SEP19	----	----	1.993 + 0.655		----	----	275	UNCH
OCT19	----	----	0.982 + 0.576		----	40	280	+ 40
NOV19	----	----	0.266 + 0.406		----	40	280	+ 40
DEC19	----	----	0.096 + 0.302		----	40	280	+ 40
JAN20	----	----	0.426 + 0.244		----	----	10	UNCH
FEB20	----	----	1.152 + 0.251		----	----	10	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
RBB FUT	RBOB GAS VS. BRENT CRCK SPRD							
MAR20	----	----	9.261 + 0.306		----	----	10	UNCH
APR20	----	----	9.826 + 0.363		----	----	10	UNCH
MAY20	----	----	9.704 + 0.355		----	----	10	UNCH
JUN20	----	----	9.323 + 0.375		----	----	10	UNCH
JUL20	----	----	8.578 + 0.384		----	----	10	UNCH
AUG20	----	----	7.835 + 0.396		----	----	10	UNCH
SEP20	----	----	2.910 + 0.372		----	----	10	UNCH
OCT20	----	----	2.018 + 0.348		----	----	10	UNCH
NOV20	----	----	1.333 + 0.325		----	----	10	UNCH
DEC20	----	----	1.347 + 0.336		----	----	10	UNCH
TOTAL RBB FUT						445	10739 -	21
1D FUT	RBOB GASOLINE BALMO CLNDR							
02NOV18	----	----	1.6037 + 0.0102		----	----	188	UNCH
06NOV18	----	----	1.5930 + 0.0113		----	----	208	UNCH
TOTAL 1D FUT							396	
RH FUT	RBOB VS HEATING OIL							
NOV18	----	----	-0.5081 + 0.0099		----	----	55	UNCH
DEC18	----	----	-0.4987 + 0.0219		----	----	55	UNCH
TOTAL RH FUT							110	
EVC FUT	SING 380 FUEL OIL VS FUEL OIL ROTDM							
NOV18	----	----	43.33 + 1.53		----	----	586	UNCH
DEC18	----	----	39.25 + 1.12		----	----	614	UNCH
JAN19	----	----	34.69 + 0.38		----	----	543	UNCH
FEB19	----	----	31.14 + 0.20		----	----	258	UNCH
MAR19	----	----	29.70 + 0.01		----	----	250	UNCH
APR19	----	----	29.12 + 0.08		----	5	163 +	5
MAY19	----	----	28.18 + 0.05		----	5	163 +	5
JUN19	----	----	27.33 + 0.10		----	5	167 +	5
JUL19	----	----	27.05 - 0.05		----	----	178	UNCH
AUG19	----	----	27.93 - 0.05		----	----	161	UNCH
SEP19	----	----	29.30 - 0.05		----	----	258	UNCH
OCT19	----	----	29.30 - 0.05		----	----	181	UNCH
NOV19	----	----	30.30 - 0.05		----	----	137	UNCH
DEC19	----	----	29.55 - 0.05		----	----	230	UNCH
JAN20	----	----	26.80 - 0.05		----	----	54	UNCH
FEB20	----	----	25.80 - 0.05		----	----	54	UNCH
MAR20	----	----	24.80 - 0.05		----	----	54	UNCH
APR20	----	----	24.88 - 0.08		----	----	35	UNCH
MAY20	----	----	24.33 - 0.11		----	----	35	UNCH
JUN20	----	----	23.88 - 0.22		----	----	35	UNCH
JUL20	----	----	23.44 - 0.19		----	----	31	UNCH
AUG20	----	----	22.75 - 0.28		----	----	31	UNCH
SEP20	----	----	22.25 - 0.42		----	----	31	UNCH
OCT20	----	----	21.88 - 0.43		----	----	21	UNCH
NOV20	----	----	21.39 - 0.43		----	----	21	UNCH
DEC20	----	----	21.31 - 0.44		----	----	21	UNCH
TOTAL EVC FUT						15	4312 +	15
BS FUT	SINGAPORE 180CST BALMO							
09NOV18	----	----	448.089 + 2.258		----	----	5	UNCH
14NOV18	----	----	444.398 + 2.778		----	----	5	UNCH
TOTAL BS FUT							10	
BT FUT	SINGAPORE 380CST BALMO							
02NOV18	----	----	451.091 + 1.812		----	----	24	UNCH
05NOV18	----	----	449.619 + 1.907		----	----	25	UNCH
09NOV18	----	----	444.004 + 2.265		----	----	5	UNCH
12NOV18	----	----	442.919 + 2.416		----	----	20	UNCH
13NOV18	----	----	441.324 + 2.588		----	----	1	UNCH
14NOV18	----	----	440.428 + 2.787		----	----	1	UNCH
15NOV18	----	----	441.106 + 3.020		----	----	4	UNCH
19NOV18	----	----	440.521 NEW		----	5	5 +	5
TOTAL BT FUT						5	85 +	5
SE FUT	SINGAPORE 380CST FUEL OIL							
NOV18	----	----	452.74 + 1.73		----	----	1931	UNCH
DEC18	----	----	430.15 + 2.87		----	170	1711 -	83
JAN19	----	----	418.86 + 1.89		----	21	1022	UNCH
FEB19	----	----	410.29 + 1.44		----	26	755 +	1
MAR19	----	----	404.09 + 1.26		----	25	583	UNCH
APR19	----	----	398.84 + 1.19		----	60	375 +	19
MAY19	----	----	393.06 + 1.00		----	----	678	UNCH
JUN19	----	----	387.27 + 0.86		----	----	494	UNCH
JUL19	----	----	380.90 + 0.52		----	----	151	UNCH
AUG19	----	----	373.73 + 0.53		----	----	90	UNCH
SEP19	----	----	364.23 + 0.40		----	----	195	UNCH

PRELIMINARY

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ENERGY FUTURES PRODUCTS

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	SE FUT	UA FUT	SD FUT	SG FUT	VU FUT	GA FUT	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
SINGAPORE 380CST FUEL OIL												
	OCT19						----	----	350.73 + 0.40	----	----	287 UNCH
	NOV19						----	----	340.73 + 0.40	----	----	72 UNCH
	DEC19						----	----	329.98 + 0.53	----	----	112 UNCH
	JAN20						----	----	319.73 + 0.53	----	----	88 UNCH
	FEB20						----	----	317.23 + 0.40	----	----	55 UNCH
	MAR20						----	----	315.60 + 0.28	----	----	53 UNCH
	APR20						----	----	315.68 + 0.24	----	----	26 UNCH
	MAY20						----	----	315.75 + 0.21	----	----	26 UNCH
	JUN20						----	----	316.31 + 0.11	----	----	26 UNCH
	JUL20						----	----	316.86 + 0.01	----	----	16 UNCH
	AUG20						----	----	317.42 - 0.09	----	----	15 UNCH
	SEP20						----	----	318.18 - 0.22	----	----	15 UNCH
	OCT20						----	----	318.93 - 0.35	----	----	7 UNCH
	NOV20						----	----	319.69 - 0.48	----	----	7 UNCH
	DEC20						----	----	320.86 - 0.61	----	----	17 UNCH
TOTAL	SE FUT										302	8807 - 63
SINGAPORE FUEL 180CST CAL												
	NOV18						----	----	456.83 + 1.72	----	----	236 UNCH
	DEC18						----	----	434.90 + 2.75	----	----	294 UNCH
	JAN19						----	----	424.18 + 1.77	----	----	66 UNCH
	FEB19						----	----	416.72 + 1.32	----	----	1 UNCH
	MAR19						----	----	411.59 + 1.19	----	----	1 UNCH
	APR19						----	----	407.42 + 1.19	----	----	1 UNCH
	MAY19						----	----	402.19 + 1.00	----	----	1 UNCH
	JUN19						----	----	396.89 + 0.86	----	----	5 UNCH
	JUL19						----	----	391.15 + 0.52	----	----	1 UNCH
	AUG19						----	----	385.35 + 0.53	----	----	1 UNCH
	SEP19						----	----	377.23 + 0.40	----	----	1 UNCH
	OCT19						----	----	365.98 + 0.40	----	----	2 UNCH
	NOV19						----	----	357.23 + 0.40	----	----	2 UNCH
	DEC19						----	----	347.98 + 0.53	----	----	2 UNCH
TOTAL	UA FUT											614
SINGAPORE FUEL OIL SPREAD												
	NOV18						----	----	4.09 - 0.01	----	----	201 UNCH
	DEC18						----	----	4.75 - 0.13	----	----	200 UNCH
	JAN19						----	----	5.31 - 0.13	----	5	56 - 5
	FEB19						----	----	6.44 - 0.13	----	----	31 UNCH
	MAR19						----	----	7.50 - 0.06	----	----	22 UNCH
	APR19						----	----	8.58 UNCH	----	----	5 UNCH
	MAY19						----	----	9.13 UNCH	----	----	5 UNCH
	JUN19						----	----	9.63 UNCH	----	----	5 UNCH
	JUL19						----	----	10.25 UNCH	----	----	10 UNCH
	AUG19						----	----	11.63 UNCH	----	----	10 UNCH
	SEP19						----	----	13.00 UNCH	----	----	10 UNCH
	OCT19						----	----	15.25 UNCH	----	----	10 UNCH
	NOV19						----	----	16.50 UNCH	----	----	10 UNCH
	DEC19						----	----	18.00 UNCH	----	----	10 UNCH
TOTAL	SD FUT										5	585 - 5
SINGAPORE GASOIL												
	NOV18						----	----	85.39 - 0.32	----	----	1380 UNCH
	DEC18						----	----	83.13 - 0.70	----	50	2480 + 50
	JAN19						----	----	83.17 - 0.57	----	----	1140 UNCH
	FEB19						----	----	83.11 - 0.51	----	----	635 UNCH
	MAR19						----	----	83.07 - 0.50	----	----	275 UNCH
	APR19						----	----	83.06 - 0.48	----	----	200 UNCH
	MAY19						----	----	83.05 - 0.49	----	----	350 UNCH
	JUN19						----	----	83.07 - 0.45	----	----	175 UNCH
	JUL19						----	----	83.15 - 0.48	----	----	35 UNCH
	DEC19						----	----	84.16 - 0.51	----	----	100 UNCH
TOTAL	SG FUT										50	6770 + 50
SINGAPORE GASOIL BALMO												
	02NOV18						----	----	85.060 - 0.332	----	----	50 UNCH
	07NOV18						----	----	84.609 - 0.368	----	----	100 UNCH
	08NOV18						----	----	84.379 - 0.390	----	----	145 UNCH
TOTAL	VU FUT											295
SINGAPORE GASOIL VS ICE												
	NOV18						----	----	-1.98 - 0.01	----	----	5005 UNCH
	DEC18						----	----	-1.33 - 0.14	----	----	4410 UNCH
	JAN19						----	----	-0.82 - 0.05	----	----	4427 UNCH
	FEB19						----	----	-0.75 - 0.01	----	----	4263 UNCH
	MAR19						----	----	-0.62 + 0.00	----	----	4088 UNCH
	APR19						----	----	-0.54 + 0.00	----	----	2210 UNCH
	MAY19						----	----	-0.57 - 0.02	----	----	2210 UNCH

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GA FUT	SINGAPORE GASOIL VS ICE							
JUN19	----	----	-0.64 + 0.04		----	----	2210	UNCH
JUL19	----	----	-0.81 + 0.03		----	----	685	UNCH
AUG19	----	----	-0.81 + 0.03		----	----	685	UNCH
SEP19	----	----	-0.81 + 0.03		----	----	685	UNCH
OCT19	----	----	-0.87 + 0.03		----	----	300	UNCH
NOV19	----	----	-0.87 + 0.03		----	----	300	UNCH
DEC19	----	----	-0.87 + 0.03		----	----	400	UNCH
JAN20	----	----	-0.45 - 0.03		----	----	325	UNCH
FEB20	----	----	-0.45 - 0.03		----	----	325	UNCH
MAR20	----	----	-0.45 - 0.03		----	----	325	UNCH
APR20	----	----	-0.46 - 0.02		----	----	300	UNCH
MAY20	----	----	-0.46 - 0.02		----	----	300	UNCH
JUN20	----	----	-0.46 - 0.02		----	----	300	UNCH
JUL20	----	----	-0.46 - 0.02		----	----	275	UNCH
AUG20	----	----	-0.46 - 0.02		----	----	275	UNCH
SEP20	----	----	-0.46 - 0.02		----	----	275	UNCH
OCT20	----	----	-0.46 - 0.02		----	----	275	UNCH
NOV20	----	----	-0.46 - 0.02		----	----	275	UNCH
DEC20	----	----	-0.46 - 0.02		----	----	275	UNCH
TOTAL GA FUT							35403	
RK FUT	SINGAPORE JET KERO GASOIL							
NOV18	----	----	0.364 + 0.249		----	----	785	UNCH
DEC18	----	----	0.855 + 0.405		----	----	935	UNCH
JAN19	----	----	0.780 + 0.230		----	----	750	UNCH
FEB19	----	----	0.775 + 0.145		----	----	575	UNCH
MAR19	----	----	0.710 + 0.140		----	----	725	UNCH
APR19	----	----	0.625 + 0.140		----	----	660	UNCH
MAY19	----	----	0.550 + 0.160		----	----	660	UNCH
JUN19	----	----	0.600 + 0.100		----	----	660	UNCH
JUL19	----	----	0.550 + 0.050		----	----	600	UNCH
AUG19	----	----	0.550 + 0.050		----	----	600	UNCH
SEP19	----	----	0.550 + 0.050		----	----	600	UNCH
OCT19	----	----	0.480 + 0.030		----	----	450	UNCH
NOV19	----	----	0.480 + 0.030		----	----	450	UNCH
DEC19	----	----	0.480 + 0.030		----	----	450	UNCH
TOTAL RK FUT							8900	
KS FUT	SINGAPORE JET KEROSENE							
NOV18	----	----	85.76 - 0.07		----	----	800	UNCH
DEC18	----	----	83.98 - 0.30		----	----	1075	UNCH
JAN19	----	----	83.95 - 0.34		----	----	600	UNCH
FEB19	----	----	83.89 - 0.36		----	----	450	UNCH
MAR19	----	----	83.78 - 0.36		----	----	575	UNCH
TOTAL KS FUT							3500	
V0 FUT	SINGAPORE MOGAS 95							
NOV18	----	----	71.186 + 0.555		----	----	80	UNCH
DEC18	----	----	69.930 + 1.053		----	----	80	UNCH
TOTAL V0 FUT							160	
SMU FUT	SINGAPORE MOGAS95-SINGAPORE MOGAS92							
NOV18	----	----	1.583 + 0.002		----	----	63	UNCH
DEC18	----	----	1.800 UNCH		----	----	63	UNCH
TOTAL SMU FUT							126	
STZ FUT	SINGAPORE GASOIL 10PPM V GSOLSPD FUT							
NOV18	----	----	0.765 - 0.009		----	----	150	UNCH
DEC18	----	----	0.900 UNCH		----	----	150	UNCH
TOTAL STZ FUT							300	
STS FUT	SPORE FUEL OIL 180CST 6.35 DUBAI CK							
NOV18	----	----	4.338 + 0.216		----	----	137	UNCH
DEC18	----	----	3.017 + 0.359		----	----	137	UNCH
JAN19	----	----	1.469 + 0.296		----	----	10	UNCH
FEB19	----	----	0.275 + 0.256		----	----	10	UNCH
MAR19	----	----	-0.542 + 0.287		----	----	10	UNCH
APR19	----	----	-1.159 + 0.346		----	----	30	UNCH
MAY19	----	----	-1.934 + 0.376		----	----	30	UNCH
JUN19	----	----	-2.696 + 0.336		----	----	30	UNCH
TOTAL STS FUT							394	
1NB FUT	SPORE MOGAS92 UNLD BRENT SPRD							
NOV18	----	----	1.108 + 0.483		----	----	628	UNCH
DEC18	----	----	1.082 + 0.912		----	----	740	UNCH
JAN19	----	----	1.155 + 0.881		----	----	215	UNCH
FEB19	----	----	1.381 + 0.778		----	----	215	UNCH
MAR19	----	----	1.648 + 0.681		----	----	215	UNCH
APR19	----	----	1.814 + 0.628		----	----	84	UNCH
MAY19	----	----	2.044 + 0.507		----	----	84	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
1NB FUT	SPORE MOGAS92 UNLD BRENT SPRD							
JUN19	----	----	2.106 + 0.444		----	----	84	UNCH
TOTAL 1NB FUT							2265	
1L FUT	ULSD UP-DOWN BALMO							
02NOV18	----	----	-0.0862 UNCH		----	----	925	UNCH
05NOV18	----	----	-0.0881 UNCH		----	----	350	UNCH
06NOV18	----	----	-0.0896 UNCH		----	----	1370	UNCH
07NOV18	----	----	-0.0910 UNCH		----	----	1700	UNCH
08NOV18	----	----	-0.0922 UNCH		----	----	250	UNCH
09NOV18	----	----	-0.0936 UNCH		----	----	400	UNCH
12NOV18	----	----	-0.0945 UNCH		----	----	325	UNCH
13NOV18	----	----	-0.0946 UNCH		----	----	561	UNCH
14NOV18	----	----	-0.0950 UNCH		----	----	800	UNCH
15NOV18	----	----	-0.0950 UNCH		----	----	400	UNCH
16NOV18	----	----	-0.0950 UNCH		----	265	290 +	265
TOTAL 1L FUT						265	7371 +	265
LT FUT	UP DOWN GC ULSD VS NMX HO SPRD							
NOV18	----	----	-0.0843 UNCH		----	----	11899	UNCH
DEC18	----	----	-0.0950 - 0.0015		----	550	9893 +	50
JAN19	----	----	-0.0765 UNCH		----	----	5005	UNCH
FEB19	----	----	-0.0650 UNCH		----	----	4054	UNCH
MAR19	----	----	-0.0500 UNCH		----	----	3489	UNCH
APR19	----	----	-0.0460 UNCH		----	----	961	UNCH
MAY19	----	----	-0.0460 UNCH		----	----	930	UNCH
JUN19	----	----	-0.0460 UNCH		----	----	923	UNCH
JUL19	----	----	-0.0450 UNCH		----	----	481	UNCH
AUG19	----	----	-0.0450 UNCH		----	----	486	UNCH
SEP19	----	----	-0.0450 UNCH		----	----	487	UNCH
OCT19	----	----	-0.0450 UNCH		----	----	350	UNCH
NOV19	----	----	-0.0500 UNCH		----	----	345	UNCH
DEC19	----	----	-0.0750 UNCH		----	----	338	UNCH
JAN20	----	----	-0.0725 UNCH		----	----	68	UNCH
FEB20	----	----	-0.0625 UNCH		----	----	68	UNCH
MAR20	----	----	-0.0475 UNCH		----	----	68	UNCH
APR20	----	----	-0.0450 UNCH		----	----	68	UNCH
MAY20	----	----	-0.0450 UNCH		----	----	68	UNCH
JUN20	----	----	-0.0450 UNCH		----	----	68	UNCH
JUL20	----	----	-0.0425 UNCH		----	----	68	UNCH
AUG20	----	----	-0.0425 UNCH		----	----	68	UNCH
SEP20	----	----	-0.0425 UNCH		----	----	68	UNCH
OCT20	----	----	-0.0450 UNCH		----	----	68	UNCH
NOV20	----	----	-0.0550 UNCH		----	----	68	UNCH
DEC20	----	----	-0.0750 UNCH		----	----	68	UNCH
JAN21	----	----	-0.0750 UNCH		----	----	2	UNCH
FEB21	----	----	-0.0750 UNCH		----	----	2	UNCH
MAR21	----	----	-0.0750 UNCH		----	----	2	UNCH
APR21	----	----	-0.0750 UNCH		----	----	2	UNCH
MAY21	----	----	-0.0750 UNCH		----	----	2	UNCH
JUN21	----	----	-0.0750 UNCH		----	----	2	UNCH
JUL21	----	----	-0.0750 UNCH		----	----	2	UNCH
AUG21	----	----	-0.0750 UNCH		----	----	2	UNCH
SEP21	----	----	-0.0750 UNCH		----	----	2	UNCH
OCT21	----	----	-0.0750 UNCH		----	----	2	UNCH
NOV21	----	----	-0.0750 UNCH		----	----	2	UNCH
DEC21	----	----	-0.0750 UNCH		----	----	2	UNCH
TOTAL LT FUT						550	40481 +	50

NGL/PETROCHEM FUTURES PRODUCTS

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
91 FUT	ARGS FAR E NDX VS EUR CIF ARA							
NOV18	----	----	43.504 - 0.174		----	----	171	UNCH
DEC18	----	----	43.000 UNCH		----	----	150	UNCH
JAN19	----	----	41.000 - 0.500		----	2	53 -	2
FEB19	----	----	39.500 - 1.500		----	2	57 -	2
MAR19	----	----	39.500 - 1.500		----	2	45 -	2
APR19	----	----	39.500 - 1.500		----	----	43	UNCH
MAY19	----	----	39.500 - 0.750		----	----	49	UNCH
JUN19	----	----	39.500 - 0.750		----	----	32	UNCH
JUL19	----	----	39.500 - 0.750		----	----	23	UNCH
AUG19	----	----	38.000 - 1.250		----	----	23	UNCH
SEP19	----	----	37.500 - 1.500		----	----	23	UNCH
OCT19	----	----	37.500 - 1.500		----	----	31	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBEX OPEN			GLOBEX HIGH/LOW			SETT. PRICE & PT. CHGE		GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
91 FUT	ARGS	FAR	E NDX VS	EUR	CIF	ARA						
NOV19			----			----	37.500	- 1.500	----	----	31	UNCH
DEC19			----			----	37.500	- 1.500	----	----	31	UNCH
JAN20			----			----	37.500	- 1.500	----	----	1	UNCH
FEB20			----			----	37.500	- 1.500	----	----	1	UNCH
MAR20			----			----	37.500	- 1.500	----	----	1	UNCH
APR20			----			----	37.500	- 1.500	----	----	1	UNCH
MAY20			----			----	37.500	- 1.500	----	----	1	UNCH
JUN20			----			----	37.500	- 1.500	----	----	1	UNCH
JUL20			----			----	37.500	- 1.500	----	----	1	UNCH
AUG20			----			----	37.500	- 1.500	----	----	1	UNCH
SEP20			----			----	37.500	- 1.500	----	----	1	UNCH
OCT20			----			----	37.500	- 1.500	----	----	1	UNCH
NOV20			----			----	37.500	- 1.500	----	----	1	UNCH
DEC20			----			----	37.500	- 1.500	----	----	1	UNCH
TOTAL 91 FUT										6	774	- 6
7E FUT	ARGUS	PROPAN	FAR	EST	INDEX							
NOV18							513.342	+ 5.175	----	----	837	UNCH
DEC18							514.192	+ 10.639	----	148	1012	- 3
JAN19							510.451	+ 9.743	----	75	436	+ 25
FEB19							503.711	+ 8.796	----	26	387	+ 16
MAR19							487.691	+ 7.550	----	24	459	+ 1
APR19							473.786	+ 7.232	----	17	306	+ 9
MAY19							467.390	+ 7.117	----	5	235	+ 3
JUN19							466.196	+ 6.579	----	5	223	UNCH
JUL19							468.664	+ 6.596	----	----	240	UNCH
AUG19							471.250	+ 6.190	----	----	156	UNCH
SEP19							474.785	+ 5.909	----	----	111	UNCH
OCT19							478.595	+ 5.881	----	----	172	UNCH
NOV19							482.720	+ 5.978	----	----	141	UNCH
DEC19							486.856	+ 6.160	----	----	235	UNCH
JAN20							490.776	+ 10.384	----	----	12	UNCH
FEB20							485.111	+ 8.690	----	----	12	UNCH
MAR20							475.110	+ 9.060	----	----	12	UNCH
JUN20							463.292	+ 9.684	----	----	15	UNCH
TOTAL 7E FUT										300	5001	+ 51
9N FUT	ARGUS	PROPAN(SAUDI	ARAMCO)									
DEC18							479.192	+ 9.139	----	52	664	+ 18
JAN19							481.951	+ 9.743	----	39	280	- 12
FEB19							479.211	+ 9.796	----	53	269	+ 32
MAR19							467.191	+ 7.550	----	25	245	- 8
APR19							456.286	+ 6.732	----	----	192	UNCH
MAY19							450.390	+ 7.117	----	----	147	UNCH
JUN19							446.696	+ 7.079	----	----	70	UNCH
JUL19							445.664	+ 7.096	----	----	47	UNCH
AUG19							448.750	+ 7.190	----	----	52	UNCH
SEP19							451.785	+ 6.909	----	----	58	UNCH
OCT19							454.595	+ 6.881	----	----	46	UNCH
NOV19							457.720	+ 6.978	----	----	48	UNCH
DEC19							460.856	+ 7.160	----	----	59	UNCH
TOTAL 9N FUT										169	2177	+ 30
22 FUT	ARGUS	PROPANE	FAR	E	INDX	BALMO						
02NOV18							511.359	+ 5.434	----	----	10	UNCH
05NOV18							510.009	+ 5.719	----	----	6	UNCH
07NOV18							508.760	+ 6.037	----	----	25	UNCH
08NOV18							508.084	+ 6.392	----	----	38	UNCH
13NOV18							508.549	+ 7.763	----	----	15	UNCH
TOTAL 22 FUT											94	
8L FUT	CONWAY	NAT	GASOLINE									
NOV18							1.12022	+ 0.00309	----	----	188	UNCH
DEC18							1.13500	+ 0.00500	----	----	196	UNCH
JAN19							1.14500	+ 0.00500	----	----	128	UNCH
FEB19							1.14750	+ 0.00500	----	----	128	UNCH
MAR19							1.14875	+ 0.00500	----	----	128	UNCH
APR19							1.14875	+ 0.00500	----	----	67	UNCH
MAY19							1.14875	+ 0.00500	----	----	67	UNCH
JUN19							1.14875	+ 0.00500	----	----	67	UNCH
JUL19							1.14750	+ 0.00500	----	----	63	UNCH
AUG19							1.14625	+ 0.00500	----	----	63	UNCH
SEP19							1.14500	+ 0.00500	----	----	63	UNCH
OCT19							1.14250	+ 0.00500	----	----	63	UNCH
NOV19							1.14000	+ 0.00500	----	----	63	UNCH
DEC19							1.13750	+ 0.00500	----	----	63	UNCH
TOTAL 8L FUT											1347	

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ENERGY FUTURES PRODUCTS

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	GLOBEX OPEN	GLOBEX HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
CBB FUT	CONWAY NML BUT (OPIS) BALMO						
06NOV18	----	----	0.80272 + 0.03765	----	----	25	UNCH
TOTAL CBB FUT						25	
8M FUT	CONWAY NORMAL BUTANE						
NOV18	----	----	0.80575 + 0.03200	----	----	321	UNCH
DEC18	----	----	0.85500 + 0.07000	----	----	311	UNCH
JAN19	----	----	0.85500 + 0.07000	----	----	185	UNCH
FEB19	----	----	0.84000 + 0.07000	----	----	117	UNCH
MAR19	----	----	0.82000 + 0.07000	----	----	85	UNCH
APR19	----	----	0.80250 + 0.07000	----	----	90	UNCH
MAY19	----	----	0.79750 + 0.07000	----	----	25	UNCH
JUN19	----	----	0.79750 + 0.07000	----	----	25	UNCH
JUL19	----	----	0.80875 + 0.07000	----	----	25	UNCH
AUG19	----	----	0.82000 + 0.07000	----	----	25	UNCH
SEP19	----	----	0.83125 + 0.07000	----	----	25	UNCH
OCT19	----	----	0.84250 + 0.07000	----	----	25	UNCH
NOV19	----	----	0.85375 + 0.07000	----	----	25	UNCH
DEC19	----	----	0.86500 + 0.07000	----	----	25	UNCH
TOTAL 8M FUT						1309	
CPB FUT	CONWAY PROPANE (OPIS) BALMO						
05NOV18	----	----	0.67500 + 0.01097	----	----	37	UNCH
14NOV18	----	----	0.69795 + 0.01795	----	----	40	UNCH
19NOV18	----	----	0.70875 NEW	----	10	10 + 10	
TOTAL CPB FUT					10	87 + 10	
8K FUT	CONWAY PROPANE 5 DEC.						
NOV18	----	----	0.67506 + 0.00987	----	----	4023	UNCH
DEC18	----	----	0.72313 + 0.02313	----	125	3444 + 43	
JAN19	----	----	0.73313 + 0.02313	----	10	3501 - 10	
FEB19	----	----	0.73063 + 0.02063	----	30	2674	UNCH
MAR19	----	----	0.70063 + 0.01813	----	30	1975	UNCH
APR19	----	----	0.67188 + 0.01438	----	10	926 - 10	
MAY19	----	----	0.66188 + 0.01500	----	10	875	UNCH
JUN19	----	----	0.65813 + 0.01250	----	10	849	UNCH
JUL19	----	----	0.66250 + 0.01250	----	----	714	UNCH
AUG19	----	----	0.67250 + 0.01312	----	----	714	UNCH
SEP19	----	----	0.68375 + 0.01437	----	----	715	UNCH
OCT19	----	----	0.69563 + 0.01313	----	----	446	UNCH
NOV19	----	----	0.70750 + 0.01187	----	----	442	UNCH
DEC19	----	----	0.71938 + 0.01125	----	----	452	UNCH
JAN20	----	----	0.71250 UNCH	----	35	71 + 15	
FEB20	----	----	0.70000 - 0.00250	----	35	71 + 15	
MAR20	----	----	0.67500 - 0.00500	----	35	71 + 15	
APR20	----	----	0.65250 - 0.00500	----	----	62	UNCH
MAY20	----	----	0.64250 - 0.00500	----	----	62	UNCH
JUN20	----	----	0.64250 - 0.00500	----	----	62	UNCH
JUL20	----	----	0.65000 - 0.00500	----	----	52	UNCH
AUG20	----	----	0.65750 - 0.00500	----	----	52	UNCH
SEP20	----	----	0.66500 - 0.00500	----	----	52	UNCH
OCT20	----	----	0.67375 - 0.00500	----	----	52	UNCH
NOV20	----	----	0.68250 - 0.00500	----	----	52	UNCH
DEC20	----	----	0.69125 - 0.00500	----	----	52	UNCH
TOTAL 8K FUT					330	22461 + 68	
32 FUT	EUR PROPANE CIF ARA ARGUS BALMO						
06NOV18	----	----	467.13 + 6.20	----	----	2	UNCH
07NOV18	----	----	466.50 + 6.54	----	----	10	UNCH
08NOV18	----	----	466.94 + 6.92	----	----	16	UNCH
09NOV18	----	----	467.25 + 7.36	----	----	2	UNCH
TOTAL 32 FUT						30	
PS FUT	EURO PROPANE CIF ARA						
NOV18	----	----	469.84 + 5.35	----	----	331	UNCH
DEC18	----	----	471.19 + 10.64	----	21	335 - 3	
JAN19	----	----	469.45 + 10.24	----	17	277 + 12	
FEB19	----	----	464.21 + 10.29	----	2	165	UNCH
MAR19	----	----	448.19 + 9.05	----	7	236 + 3	
APR19	----	----	434.29 + 8.74	----	11	116 + 11	
MAY19	----	----	427.89 + 7.87	----	----	119	UNCH
JUN19	----	----	426.70 + 7.33	----	----	93	UNCH
JUL19	----	----	429.16 + 7.34	----	----	46	UNCH
AUG19	----	----	433.25 + 7.44	----	----	46	UNCH
SEP19	----	----	437.28 + 7.40	----	----	54	UNCH
OCT19	----	----	441.10 + 7.39	----	----	57	UNCH
NOV19	----	----	445.22 + 7.48	----	----	57	UNCH
DEC19	----	----	449.36 + 7.66	----	----	60	UNCH
JAN20	----	----	453.28 + 11.89	----	5	21 + 5	

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PS FUT	EURO PROPANE CIF ARA					
FEB20	----	----	447.61 + 10.19	----	5	12 + 3
MAR20	----	----	437.61 + 10.56	----	5	12 + 3
APR20	----	----	429.60 + 10.65	----	----	6 UNCH
MAY20	----	----	425.78 + 11.00	----	----	6 UNCH
JUN20	----	----	425.79 + 11.18	----	----	6 UNCH
TOTAL PS FUT					73	2055 + 34
MPS FUT	MINI EURO PROPANE CIF ARA ARGUS FUT					
NOV18	----	----	469.84 + 5.35	----	----	60 UNCH
DEC18	----	----	471.19 + 10.64	----	15	80 + 5
JAN19	----	----	469.45 + 10.24	----	----	20 UNCH
FEB19	----	----	464.21 + 10.29	----	----	25 UNCH
MAR19	----	----	448.19 + 9.05	----	----	15 UNCH
APR19	----	----	434.29 + 8.74	----	----	10 UNCH
JUN19	----	----	426.70 + 7.33	----	----	10 UNCH
JUL19	----	----	429.16 + 7.34	----	----	15 UNCH
AUG19	----	----	433.25 + 7.44	----	----	15 UNCH
SEP19	----	----	437.28 + 7.40	----	----	15 UNCH
OCT19	----	----	441.10 + 7.39	----	----	15 UNCH
NOV19	----	----	445.22 + 7.48	----	----	15 UNCH
DEC19	----	----	449.36 + 7.66	----	----	15 UNCH
TOTAL MPS FUT					15	310 + 5
8C FUT	MT BELIVIEU ETHANE BALMO					
07NOV18	----	----	0.33203 - 0.00067	----	----	20 UNCH
09NOV18	----	----	0.33666 - 0.00075	----	----	35 UNCH
14NOV18	----	----	0.34279 - 0.00096	----	----	25 UNCH
TOTAL 8C FUT						80
80 FUT	MT BELIVIEU LDH PROPANE BALMO					
02NOV18	----	----	0.77974 + 0.01221	----	----	1070 UNCH
05NOV18	----	----	0.77774 + 0.01288	----	----	37 UNCH
06NOV18	----	----	0.77522 + 0.01364	----	----	50 UNCH
08NOV18	----	----	0.77238 + 0.01546	----	----	360 UNCH
09NOV18	----	----	0.77339 + 0.01656	----	----	45 UNCH
14NOV18	----	----	0.78756 + 0.02108	----	----	50 UNCH
19NOV18	----	----	0.79750 NEW	----	50	50 + 50
TOTAL 80 FUT					50	1662 + 50
R0 FUT	MT BELIVIEU NAT GASOLINE BALMO					
07NOV18	----	----	1.13160 + 0.00953	----	----	10 UNCH
09NOV18	----	----	1.12317 + 0.01089	----	----	30 UNCH
TOTAL R0 FUT						40
8J FUT	MT BELIVIEU NORMAL BUTANE BALM					
05NOV18	----	----	0.86830 + 0.01618	----	----	230 UNCH
06NOV18	----	----	0.86283 + 0.01713	----	----	55 UNCH
07NOV18	----	----	0.85793 + 0.01820	----	----	40 UNCH
08NOV18	----	----	0.85388 + 0.01942	----	----	150 UNCH
09NOV18	----	----	0.85223 + 0.02080	----	----	200 UNCH
13NOV18	----	----	0.85505 + 0.02426	----	----	55 UNCH
16NOV18	----	----	0.86875 + 0.03312	----	----	60 UNCH
TOTAL 8J FUT						790
C0 FUT	MT BELVIEU ETHANE 5-DCML (OPIS)					
NOV18	----	----	0.32956 - 0.00053	----	----	2945 UNCH
DEC18	----	----	0.35188 UNCH	----	35	4609 + 25
JAN19	----	----	0.36250 - 0.00063	----	10	2957 UNCH
FEB19	----	----	0.36250 - 0.00188	----	10	2175 UNCH
MAR19	----	----	0.35938 - 0.00250	----	60	1920 + 10
APR19	----	----	0.35500 - 0.00063	----	10	1690 + 10
MAY19	----	----	0.35375 - 0.00063	----	60	1663 + 10
JUN19	----	----	0.35250 - 0.00063	----	10	1489 + 10
JUL19	----	----	0.35125 - 0.00063	----	----	1297 UNCH
AUG19	----	----	0.35000 - 0.00063	----	----	1297 UNCH
SEP19	----	----	0.34875 - 0.00063	----	----	1297 UNCH
OCT19	----	----	0.34750 - 0.00125	----	----	1330 UNCH
NOV19	----	----	0.34625 - 0.00188	----	----	1330 UNCH
DEC19	----	----	0.34500 - 0.00250	----	----	1330 UNCH
JAN20	----	----	0.34438 - 0.00250	----	----	899 UNCH
FEB20	----	----	0.34063 - 0.00250	----	----	834 UNCH
MAR20	----	----	0.33500 - 0.00250	----	----	849 UNCH
APR20	----	----	0.33000 - 0.00250	----	10	790 + 10
MAY20	----	----	0.32750 - 0.00250	----	10	790 + 10
JUN20	----	----	0.32625 - 0.00250	----	10	790 + 10
JUL20	----	----	0.32688 - 0.00250	----	13	660 UNCH
AUG20	----	----	0.32813 - 0.00250	----	13	660 UNCH
SEP20	----	----	0.32938 - 0.00250	----	13	660 UNCH
OCT20	----	----	0.33063 - 0.00312	----	13	1070 - 13

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
CO FUT MT BELVIEU ETHANE 5-DCML (OPIS)								
NOV20	----	----	0.33188 - 0.00312		----	13	1070 -	13
DEC20	----	----	0.33313 - 0.00312		----	13	1070 -	13
JAN21	----	----	0.32767 - 0.00422		----		179	UNCH
FEB21	----	----	0.32645 - 0.00422		----		179	UNCH
MAR21	----	----	0.32458 - 0.00422		----		179	UNCH
APR21	----	----	0.31491 - 0.00422		----		69	UNCH
MAY21	----	----	0.31485 - 0.00422		----		69	UNCH
JUN21	----	----	0.31488 - 0.00422		----		69	UNCH
JUL21	----	----	0.31730 - 0.00422		----		69	UNCH
AUG21	----	----	0.31971 - 0.00422		----		69	UNCH
SEP21	----	----	0.32222 - 0.00422		----		69	UNCH
OCT21	----	----	0.32464 - 0.00422		----		69	UNCH
NOV21	----	----	0.32704 - 0.00422		----		69	UNCH
DEC21	----	----	0.32945 - 0.00422		----		69	UNCH
JAN22	----	----	0.32517 - 0.00422		----		48	UNCH
FEB22	----	----	0.32395 - 0.00422		----		48	UNCH
MAR22	----	----	0.32208 - 0.00422		----		48	UNCH
APR22	----	----	0.31241 - 0.00422		----		48	UNCH
MAY22	----	----	0.31235 - 0.00422		----		48	UNCH
JUN22	----	----	0.31238 - 0.00422		----		48	UNCH
JUL22	----	----	0.31480 - 0.00422		----		48	UNCH
AUG22	----	----	0.31721 - 0.00422		----		48	UNCH
SEP22	----	----	0.31972 - 0.00422		----		48	UNCH
OCT22	----	----	0.32214 - 0.00422		----		48	UNCH
NOV22	----	----	0.32454 - 0.00422		----		48	UNCH
DEC22	----	----	0.32695 - 0.00422		----		48	UNCH
TOTAL CO FUT						303	39205 +	56
MBB FUT MT BELVIEU ETHYLENE (PCW) BALMO								
02NOV18	----	----	0.19825 UNCH		----		20	UNCH
08NOV18	----	----	0.19805 UNCH		----		30	UNCH
TOTAL MBB FUT								50
MBN FUT MT BELVIEU ETHYLENE (PCW) FINCL								
NOV18	----	----	0.19821 UNCH		----		535	UNCH
DEC18	----	----	0.19750 UNCH		----		560	UNCH
JAN19	----	----	0.20125 UNCH		----		149	UNCH
FEB19	----	----	0.20250 UNCH		----		139	UNCH
MAR19	----	----	0.20375 UNCH		----		139	UNCH
APR19	----	----	0.20250 UNCH		----		129	UNCH
MAY19	----	----	0.20000 UNCH		----		129	UNCH
JUN19	----	----	0.19750 UNCH		----		121	UNCH
JUL19	----	----	0.19500 UNCH		----		79	UNCH
AUG19	----	----	0.19250 UNCH		----		89	UNCH
SEP19	----	----	0.19500 UNCH		----		79	UNCH
OCT19	----	----	0.19375 UNCH		----		79	UNCH
NOV19	----	----	0.19375 UNCH		----		79	UNCH
DEC19	----	----	0.19250 UNCH		----		79	UNCH
TOTAL MBN FUT								2385
MBE FUT MT BELVIEU ETHYLENE IN-WELL (PCW)								
NOV18	----	----	0.19750 UNCH		----		110	UNCH
DEC18	----	----	0.19750 UNCH		----		140	UNCH
JAN19	----	----	0.20125 UNCH		----		85	UNCH
FEB19	----	----	0.20250 UNCH		----		85	UNCH
MAR19	----	----	0.20375 UNCH		----		105	UNCH
APR19	----	----	0.20250 UNCH		----		30	UNCH
MAY19	----	----	0.20000 UNCH		----		30	UNCH
JUN19	----	----	0.19750 UNCH		----		30	UNCH
JUL19	----	----	0.19500 UNCH		----		10	UNCH
AUG19	----	----	0.19250 UNCH		----		20	UNCH
SEP19	----	----	0.19500 UNCH		----		10	UNCH
OCT19	----	----	0.19375 UNCH		----		10	UNCH
NOV19	----	----	0.19375 UNCH		----		10	UNCH
DEC19	----	----	0.19250 UNCH		----		10	UNCH
TOTAL MBE FUT								685
8I FUT MT BELVIEU ISO BUTANE 5 DEC. S								
NOV18	----	----	0.91025 + 0.00772		----		590	UNCH
DEC18	----	----	0.89375 + 0.02937		----		597	UNCH
JAN19	----	----	0.89188 + 0.03313		----		326	UNCH
FEB19	----	----	0.88313 + 0.03375		----		276	UNCH
MAR19	----	----	0.84375 + 0.02875		----		260	UNCH
APR19	----	----	0.81375 + 0.02625		----		215	UNCH
MAY19	----	----	0.79625 + 0.02375		----		215	UNCH
JUN19	----	----	0.79438 + 0.02313		----		215	UNCH
JUL19	----	----	0.79688 + 0.02313		----		204	UNCH

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ENERGY FUTURES PRODUCTS

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8I FUT	MT BELVIEU ISO BUTANE 5 DEC. S						
AUG19	----	----	0.80188 + 0.02313	----	----	204	UNCH
SEP19	----	----	0.80938 + 0.02313	----	----	204	UNCH
OCT19	----	----	0.81688 + 0.02313	----	----	204	UNCH
NOV19	----	----	0.82313 + 0.02313	----	----	204	UNCH
DEC19	----	----	0.82938 + 0.02313	----	----	204	UNCH
JAN20	----	----	0.82750 + 0.02375	----	----	93	UNCH
FEB20	----	----	0.82125 + 0.02375	----	----	93	UNCH
MAR20	----	----	0.79875 + 0.02375	----	----	93	UNCH
APR20	----	----	0.78375 + 0.02375	----	----	93	UNCH
MAY20	----	----	0.77625 + 0.02375	----	----	93	UNCH
JUN20	----	----	0.77625 + 0.02375	----	----	93	UNCH
JUL20	----	----	0.77875 + 0.02375	----	----	93	UNCH
AUG20	----	----	0.78375 + 0.02375	----	----	93	UNCH
SEP20	----	----	0.79000 + 0.02375	----	----	93	UNCH
OCT20	----	----	0.79625 + 0.02375	----	----	93	UNCH
NOV20	----	----	0.80250 + 0.02375	----	----	93	UNCH
DEC20	----	----	0.80750 + 0.02375	----	----	93	UNCH
TOTAL 8I FUT						5034	
7Q FUT	MT BELVIEU NAT GAS 5-DCML (OPIS)						
NOV18	----	----	1.16094 + 0.00762	----	----	2123	UNCH
DEC18	----	----	1.13000 + 0.01375	----	50	2577 +	50
JAN19	----	----	1.14875 + 0.01187	----	----	1566	UNCH
FEB19	----	----	1.15938 + 0.01188	----	----	1344	UNCH
MAR19	----	----	1.16438 + 0.01125	----	----	1349	UNCH
APR19	----	----	1.16938 + 0.01188	----	----	1071	UNCH
MAY19	----	----	1.17250 + 0.01187	----	----	1071	UNCH
JUN19	----	----	1.17438 + 0.01125	----	----	1071	UNCH
JUL19	----	----	1.17563 + 0.01063	----	----	1057	UNCH
AUG19	----	----	1.17688 + 0.01000	----	----	1057	UNCH
SEP19	----	----	1.17938 + 0.00875	----	----	1057	UNCH
OCT19	----	----	1.17959 + 0.00834	----	----	891	UNCH
NOV19	----	----	1.18084 + 0.00834	----	----	891	UNCH
DEC19	----	----	1.18084 + 0.00709	----	----	1119	UNCH
JAN20	----	----	1.18479 + 0.00750	----	----	191	UNCH
FEB20	----	----	1.18479 + 0.00750	----	----	191	UNCH
MAR20	----	----	1.18229 + 0.00750	----	----	191	UNCH
APR20	----	----	1.18229 + 0.00750	----	----	216	UNCH
MAY20	----	----	1.17854 + 0.00750	----	----	216	UNCH
JUN20	----	----	1.17604 + 0.00750	----	----	216	UNCH
JUL20	----	----	1.17625 + 0.00750	----	----	191	UNCH
AUG20	----	----	1.17500 + 0.00750	----	----	191	UNCH
SEP20	----	----	1.17563 + 0.00750	----	----	191	UNCH
OCT20	----	----	1.17313 + 0.00750	----	----	191	UNCH
NOV20	----	----	1.17063 + 0.00750	----	----	191	UNCH
DEC20	----	----	1.16813 + 0.00750	----	----	191	UNCH
TOTAL 7Q FUT					50	20611 +	50
MNB FUT	MT BELVIEU NORMAL BUTANE LDH(OPIS)						
NOV18	----	----	0.83609 + 0.02525	----	----	808	UNCH
DEC18	----	----	0.82500 + 0.04625	----	----	894	UNCH
JAN19	----	----	0.82500 + 0.03500	----	----	500	UNCH
FEB19	----	----	0.81875 + 0.03250	----	----	632	UNCH
MAR19	----	----	0.74250 + 0.03000	----	----	114	UNCH
APR19	----	----	0.71500 + 0.02750	----	----	66	UNCH
MAY19	----	----	0.69750 + 0.02375	----	----	45	UNCH
JUN19	----	----	0.69500 + 0.02250	----	----	45	UNCH
JUL19	----	----	0.70750 + 0.02250	----	----	45	UNCH
AUG19	----	----	0.71250 + 0.02250	----	----	45	UNCH
SEP19	----	----	0.72000 + 0.02250	----	----	11	UNCH
OCT19	----	----	0.76250 + 0.02250	----	----	1	UNCH
NOV19	----	----	0.77875 + 0.02250	----	----	1	UNCH
DEC19	----	----	0.78500 + 0.02250	----	----	1	UNCH
TOTAL MNB FUT						3208	
DO FUT	MT BELVIEU NRM BUTANE 5-DCML (OPIS)						
NOV18	----	----	0.87659 + 0.01456	----	----	6869	UNCH
DEC18	----	----	0.87250 + 0.03187	----	805	7482 -	370
JAN19	----	----	0.87250 + 0.03312	----	840	5065 -	10
FEB19	----	----	0.86375 + 0.03375	----	75	4123 -	30
MAR19	----	----	0.82438 + 0.02875	----	20	3477	UNCH
APR19	----	----	0.79688 + 0.02625	----	25	1833 -	2
MAY19	----	----	0.78063 + 0.02375	----	25	1702 -	20
JUN19	----	----	0.77875 + 0.02312	----	25	1871 -	20
JUL19	----	----	0.78125 + 0.02312	----	22	1268 -	18
AUG19	----	----	0.78625 + 0.02312	----	22	1268 -	18
SEP19	----	----	0.79375 + 0.02312	----	22	1298 -	18

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

DO FUT	MT BELVIEU NRM BUTANE 5-DCML (OPIS)	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST
OCT19		----	----	0.80125 + 0.02312	----	10	1662 - 10
NOV19		----	----	0.80750 + 0.02312	----	10	1662 - 10
DEC19		----	----	0.81375 + 0.02312	----	10	1672 - 10
JAN20		----	----	0.81625 + 0.02312	----	----	558 UNCH
FEB20		----	----	0.81313 + 0.02313	----	----	558 UNCH
MAR20		----	----	0.78750 + 0.02312	----	----	473 UNCH
APR20		----	----	0.77063 + 0.02313	----	----	541 UNCH
MAY20		----	----	0.76250 + 0.02312	----	----	541 UNCH
JUN20		----	----	0.76375 + 0.02312	----	----	541 UNCH
JUL20		----	----	0.76688 + 0.02313	----	----	464 UNCH
AUG20		----	----	0.77125 + 0.02312	----	----	464 UNCH
SEP20		----	----	0.77688 + 0.02313	----	----	464 UNCH
OCT20		----	----	0.78250 + 0.02312	----	----	484 UNCH
NOV20		----	----	0.78813 + 0.02313	----	----	484 UNCH
DEC20		----	----	0.79250 + 0.02312	----	----	484 UNCH
JAN21		----	----	0.81579 + 0.00304	----	----	10 UNCH
FEB21		----	----	0.80976 + 0.00304	----	----	10 UNCH
MAR21		----	----	0.79667 + 0.00304	----	----	10 UNCH
APR21		----	----	0.77816 + 0.00304	----	----	10 UNCH
MAY21		----	----	0.76606 + 0.00304	----	----	10 UNCH
JUN21		----	----	0.76524 + 0.00304	----	----	10 UNCH
JUL21		----	----	0.76606 + 0.00304	----	----	10 UNCH
AUG21		----	----	0.76572 + 0.00304	----	----	10 UNCH
SEP21		----	----	0.76735 + 0.00304	----	----	10 UNCH
OCT21		----	----	0.77128 + 0.00304	----	----	10 UNCH
NOV21		----	----	0.77587 + 0.00304	----	----	10 UNCH
DEC21		----	----	0.77979 + 0.00304	----	----	10 UNCH
TOTAL D0 FUT						1911	47428 - 536
B0 FUT	MT BELVIEU PROPANE 5-DCML (OPIS)						
NOV18		----	----	0.78206 + 0.01159	----	----	14315 UNCH
DEC18		----	----	0.79938 + 0.02750	----	919	15146 + 128
JAN19		----	----	0.80188 + 0.02750	----	443	10033 - 34
FEB19		----	----	0.79563 + 0.02563	----	250	9442 + 91
MAR19		----	----	0.76438 + 0.02125	----	460	8225 - 44
APR19		----	----	0.73438 + 0.01750	----	208	6464 + 5
MAY19		----	----	0.72188 + 0.01750	----	133	6372 - 25
JUN19		----	----	0.71625 + 0.01625	----	143	6241 + 18
JUL19		----	----	0.71625 + 0.01500	----	85	3733 + 5
AUG19		----	----	0.71938 + 0.01500	----	75	3804 - 5
SEP19		----	----	0.72500 + 0.01500	----	75	3604 - 19
OCT19		----	----	0.73063 + 0.01500	----	73	3708 - 12
NOV19		----	----	0.73625 + 0.01500	----	73	3792 - 2
DEC19		----	----	0.74063 + 0.01500	----	73	3729 - 2
JAN20		----	----	0.74375 + 0.01500	----	55	1982 + 25
FEB20		----	----	0.74000 + 0.01375	----	55	2015 + 25
MAR20		----	----	0.72063 + 0.01125	----	55	2007 + 25
APR20		----	----	0.70313 + 0.00938	----	20	2384 UNCH
MAY20		----	----	0.69875 + 0.00937	----	20	2375 UNCH
JUN20		----	----	0.69875 + 0.00937	----	20	2384 UNCH
JUL20		----	----	0.70000 + 0.00937	----	10	1548 + 10
AUG20		----	----	0.70250 + 0.00875	----	10	1547 + 10
SEP20		----	----	0.70688 + 0.00875	----	10	1546 + 10
OCT20		----	----	0.71063 + 0.00875	----	10	1453 + 10
NOV20		----	----	0.71438 + 0.00875	----	10	1453 + 10
DEC20		----	----	0.71813 + 0.00875	----	10	1496 + 10
JAN21		----	----	0.71237 + 0.01540	----	10	224 + 10
FEB21		----	----	0.70214 + 0.00836	----	10	224 + 10
MAR21		----	----	0.68808 + 0.00819	----	10	213 + 10
APR21		----	----	0.66923 - 0.00133	----	10	171 UNCH
MAY21		----	----	0.65983 - 0.00830	----	10	170 UNCH
JUN21		----	----	0.66103 - 0.00832	----	10	170 UNCH
JUL21		----	----	0.67794 + 0.00375	----	10	170 UNCH
AUG21		----	----	0.68297 + 0.00375	----	10	170 UNCH
SEP21		----	----	0.69128 + 0.00375	----	10	170 UNCH
OCT21		----	----	0.69611 + 0.00375	----	10	170 UNCH
NOV21		----	----	0.70098 + 0.00375	----	10	170 UNCH
DEC21		----	----	0.70581 + 0.00375	----	10	170 UNCH
JAN22		----	----	0.70011 + 0.00412	----	----	60 UNCH
FEB22		----	----	0.69692 + 0.00412	----	----	60 UNCH
MAR22		----	----	0.67273 + 0.00412	----	----	60 UNCH
APR22		----	----	0.65711 + 0.00412	----	----	60 UNCH
MAY22		----	----	0.65461 + 0.00412	----	----	60 UNCH
JUN22		----	----	0.65586 + 0.00412	----	----	60 UNCH
JUL22		----	----	0.66148 + 0.00412	----	----	60 UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
B0 FUT MT BELVIEU PROPANE 5-DCML (OPIS)						
AUG22	----	----	0.66711 + 0.00412	----	----	60 UNCH
SEP22	----	----	0.67648 + 0.00412	----	----	60 UNCH
OCT22	----	----	0.68211 + 0.00412	----	----	60 UNCH
NOV22	----	----	0.68773 + 0.00412	----	----	60 UNCH
DEC22	----	----	0.69336 + 0.00412	----	----	60 UNCH
TOTAL B0 FUT					3415	123710 + 269
1R FUT PROPANE NON LDH MT BELVIEU						
NOV18	----	----	0.77600 + 0.01119	----	----	9280 UNCH
DEC18	----	----	0.80000 + 0.02625	----	250	7761 UNCH
JAN19	----	----	0.80625 + 0.02625	----	101	4566 + 38
FEB19	----	----	0.80000 + 0.02500	----	----	3142 UNCH
MAR19	----	----	0.76875 + 0.02000	----	25	2938 + 25
APR19	----	----	0.73750 + 0.01625	----	----	2575 UNCH
MAY19	----	----	0.72500 + 0.01750	----	----	2600 UNCH
JUN19	----	----	0.71875 + 0.01625	----	----	2575 UNCH
JUL19	----	----	0.71875 + 0.01375	----	----	2276 UNCH
AUG19	----	----	0.72125 + 0.01375	----	----	2276 UNCH
SEP19	----	----	0.72625 + 0.01375	----	----	2276 UNCH
OCT19	----	----	0.73250 + 0.01375	----	----	2245 UNCH
NOV19	----	----	0.73875 + 0.01375	----	----	2245 UNCH
DEC19	----	----	0.74375 + 0.01375	----	----	2245 UNCH
JAN20	----	----	0.74500 + 0.01375	----	----	693 UNCH
FEB20	----	----	0.74250 + 0.01125	----	----	693 UNCH
MAR20	----	----	0.72125 + 0.01125	----	----	693 UNCH
APR20	----	----	0.70000 + 0.01125	----	----	672 UNCH
MAY20	----	----	0.69625 + 0.01125	----	----	672 UNCH
JUN20	----	----	0.69625 + 0.01125	----	----	672 UNCH
JUL20	----	----	0.69750 + 0.01125	----	----	612 UNCH
AUG20	----	----	0.70000 + 0.01000	----	----	612 UNCH
SEP20	----	----	0.70375 + 0.01000	----	----	612 UNCH
OCT20	----	----	0.70750 + 0.01000	----	----	612 UNCH
NOV20	----	----	0.71125 + 0.01000	----	----	612 UNCH
DEC20	----	----	0.71500 + 0.01000	----	----	612 UNCH
TOTAL 1R FUT					376	56767 + 63
1S FUT PROPANE NON LDH MT BLV BALMO						
14NOV18	----	----	0.77818 + 0.02034	----	----	7 UNCH
TOTAL 1S FUT						7

ETHANOL FUTURES PRODUCTS

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
CU FUT CHICAGO ETHANOL						
NOV18	----	----	1.2525 - 0.0025	----	42	13450 + 5
DEC18	----	----	1.2600 - 0.0025	----	1518	13610 - 263
JAN19	----	----	1.2775 - 0.0025	----	891	5156 - 180
FEB19	----	----	1.3125 - 0.0025	----	830	5487 + 260
MAR19	----	----	1.3350 - 0.0050	----	225	2804 + 25
APR19	----	----	1.3550 - 0.0075	----	----	1657 UNCH
MAY19	----	----	1.3675 - 0.0100	----	----	1381 UNCH
JUN19	----	----	1.3775 - 0.0125	----	70	1849 + 10
JUL19	----	----	1.3850 - 0.0125	----	100	705 + 50
AUG19	----	----	1.3875 - 0.0125	----	100	494 + 35
SEP19	----	----	1.3900 - 0.0125	----	100	499 + 20
OCT19	----	----	1.3900 - 0.0125	----	5	600 + 5
NOV19	----	----	1.3900 - 0.0125	----	5	354 + 5
DEC19	----	----	1.3900 - 0.0125	----	5	479 + 5
TOTAL CU FUT					3891	48525 - 23
Z1 FUT ETHANOL(PL) T2 FOB RTRDM INCL						
NOV18	----	----	517.045 + 0.204	----	----	900 UNCH
DEC18	----	----	518.000 + 1.000	----	40	792 + 13
JAN19	----	----	511.000 + 4.000	----	60	492 - 13
FEB19	----	----	507.000 + 1.000	----	100	408 - 7
MAR19	----	----	507.000 + 1.000	----	110	420 - 10
APR19	----	----	503.000 + 1.000	----	60	435 + 30
MAY19	----	----	503.000 + 1.000	----	60	435 + 30
JUN19	----	----	503.000 + 1.000	----	60	435 + 30
JUL19	----	----	501.000 + 1.000	----	----	230 UNCH
AUG19	----	----	501.000 + 1.000	----	----	220 UNCH
SEP19	----	----	501.000 + 1.000	----	----	230 UNCH
OCT19	----	----	491.000 + 1.000	----	----	130 UNCH
NOV19	----	----	491.000 + 1.000	----	----	130 UNCH
DEC19	----	----	491.000 + 1.000	----	----	130 UNCH
TOTAL Z1 FUT					490	5387 + 73
MT2 FUT METHANOL T2 FOB RDAM (ICIS) FUTURES						
DEC18	----	----	330.00 UNCH	----	----	60 UNCH
JAN19	----	----	328.00 UNCH	----	----	30 UNCH
FEB19	----	----	327.00 UNCH	----	----	30 UNCH
MAR19	----	----	327.00 UNCH	----	----	30 UNCH
APR19	----	----	326.00 UNCH	----	----	30 UNCH
MAY19	----	----	323.00 UNCH	----	----	30 UNCH
JUN19	----	----	323.00 UNCH	----	----	30 UNCH
JUL19	----	----	323.00 UNCH	----	----	20 UNCH
AUG19	----	----	323.00 UNCH	----	----	20 UNCH
SEP19	----	----	320.00 UNCH	----	----	20 UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
MT2 FUT	METHANOL T2 FOB RDAM (ICIS) FUTURES							
OCT19	----	----	320.00 UNCH		----	----	20	UNCH
NOV19	----	----	320.00 UNCH		----	----	20	UNCH
DEC19	----	----	320.00 UNCH		----	----	20	UNCH
TOTAL MT2 FUT							360	
EZ FUT	NEW YORK ETHANOL							
NOV18	----	----	1.3600 - 0.0025		----	----	240	UNCH
DEC18	----	----	1.3600 - 0.0025		----	10	380	UNCH
JAN19	----	----	1.3775 - 0.0025		----	----	102	UNCH
FEB19	----	----	1.4125 - 0.0025		----	----	87	UNCH
MAR19	----	----	1.4350 - 0.0050		----	----	62	UNCH
APR19	----	----	1.4550 - 0.0075		----	----	12	UNCH
MAY19	----	----	1.4675 - 0.0100		----	----	12	UNCH
JUN19	----	----	1.4775 - 0.0125		----	----	12	UNCH
TOTAL EZ FUT						10	907	

ELECTRICITY FUTURES PRODUCTS

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
VD FUT	AEP-DAYTON HUB DAILY							
14NOV18	----	----	50.96 UNCH		----	----	0	34
15NOV18	----	----	55.76 - 1.24		----	----	34	UNCH
16NOV18	----	----	45.00 UNCH		----	----	34	UNCH
19NOV18	----	----	44.00 + 1.50		----	----	34	UNCH
20NOV18	----	----	39.00 - 3.50		----	----	34	UNCH
21NOV18	----	----	39.00 - 3.50		----	----	34	UNCH
23NOV18	----	----	39.00 - 3.50		----	----	34	UNCH
26NOV18	----	----	43.00 - 1.00		----	----	34	UNCH
27NOV18	----	----	43.00 - 1.00		----	----	34	UNCH
28NOV18	----	----	43.00 - 1.00		----	----	34	UNCH
29NOV18	----	----	43.00 - 1.00		----	----	34	UNCH
30NOV18	----	----	43.00 - 1.00		----	----	34	UNCH
TOTAL VD FUT							374	34
K2 FUT	CIN HUB 5MW D AH O PK							
DEC18	----	----	34.00 + 1.25		----	----	14840	UNCH
TOTAL K2 FUT							14840	
H5 FUT	CIN HUB 5MW D AH PK							
DEC18	----	----	46.00 + 2.12		----	----	740	UNCH
JAN19	----	----	55.11 + 2.03		----	----	88	UNCH
FEB19	----	----	49.39 + 0.97		----	----	480	UNCH
MAR19	----	----	42.97 - 1.61		----	----	441	UNCH
APR19	----	----	36.28 + 2.11		----	----	198	UNCH
MAY19	----	----	36.05 + 0.04		----	----	198	UNCH
JUN19	----	----	35.25 + 0.06		----	----	180	UNCH
JUL19	----	----	40.13 + 0.33		----	----	154	UNCH
AUG19	----	----	37.22 + 0.27		----	----	132	UNCH
SEP19	----	----	35.33 + 0.20		----	----	60	UNCH
NOV19	----	----	34.04 + 0.13		----	----	20	UNCH
DEC19	----	----	36.39 - 0.18		----	----	21	UNCH
JAN20	----	----	45.19 - 0.12		----	----	22	UNCH
FEB20	----	----	42.43 - 0.11		----	----	20	UNCH
MAR20	----	----	37.41 + 0.17		----	----	22	UNCH
APR20	----	----	35.49 + 0.14		----	----	22	UNCH
MAY20	----	----	34.90 + 0.43		----	----	60	UNCH
JUN20	----	----	34.21 + 0.37		----	----	44	UNCH
TOTAL H5 FUT							2902	
H4 FUT	CIN HUB 5MW REAL TIME O PK							
DEC18	----	----	33.50 + 1.25		----	----	29680	UNCH
JAN19	----	----	39.49 + 1.43		----	----	9800	UNCH
FEB19	----	----	36.51 + 1.32		----	----	8800	UNCH
MAR19	----	----	32.71 - 0.41		----	----	10200	UNCH
APR19	----	----	24.79 + 1.41		----	----	9200	UNCH
MAY19	----	----	24.83 + 0.05		----	----	9800	UNCH
JUN19	----	----	25.20 + 0.05		----	----	10000	UNCH
JUL19	----	----	26.66 + 0.10		----	----	9800	UNCH
AUG19	----	----	24.24 + 0.05		----	----	9800	UNCH
SEP19	----	----	24.50 + 0.10		----	----	10000	UNCH
OCT19	----	----	23.34 + 0.03		----	----	9400	UNCH
NOV19	----	----	24.23 + 0.04		----	----	10000	UNCH
DEC19	----	----	27.96 + 0.08		----	----	10200	UNCH
JAN20	----	----	35.33 - 0.62		----	----	2744	UNCH
FEB20	----	----	32.58 - 0.59		----	----	2632	UNCH
MAR20	----	----	26.64 + 0.11		----	----	2744	UNCH
APR20	----	----	23.64 + 0.14		----	----	2576	UNCH
MAY20	----	----	23.09 + 0.13		----	----	2968	UNCH
JUN20	----	----	22.89 + 0.13		----	----	2576	UNCH
JUL20	----	----	25.34 + 0.10		----	----	2632	UNCH
AUG20	----	----	23.44 + 0.13		----	----	2856	UNCH
SEP20	----	----	22.54 + 0.13		----	----	2688	UNCH
OCT20	----	----	22.89 + 0.13		----	----	2744	UNCH
NOV20	----	----	23.14 + 0.13		----	----	2800	UNCH
DEC20	----	----	25.84 + 0.10		----	----	2744	UNCH
TOTAL H4 FUT							179384	
H3 FUT	CIN HUB 5MW REAL TIME PK							
DEC18	----	----	45.50 + 2.12		----	----	1660	UNCH
JAN19	----	----	54.61 + 2.03		----	----	1430	UNCH
FEB19	----	----	48.89 + 0.97		----	----	1300	UNCH
MAR19	----	----	42.47 - 1.61		----	----	1365	UNCH
APR19	----	----	35.78 + 2.11		----	----	1430	UNCH
MAY19	----	----	35.55 + 0.04		----	----	1430	UNCH
JUN19	----	----	34.75 + 0.06		----	----	1300	UNCH
JUL19	----	----	39.63 + 0.33		----	----	1430	UNCH
AUG19	----	----	36.72 + 0.27		----	----	1430	UNCH
SEP19	----	----	34.83 + 0.20		----	----	1300	UNCH
OCT19	----	----	33.70 - 0.02		----	----	1495	UNCH
NOV19	----	----	33.54 + 0.13		----	----	1300	UNCH
DEC19	----	----	35.89 - 0.18		----	----	1365	UNCH
JAN20	----	----	44.69 - 0.12		----	----	154	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
H3 FUT	CIN HUB 5MW REAL TIME PK							
FEB20	----	----	41.93 - 0.11		----	----	140	UNCH
MAR20	----	----	36.91 + 0.17		----	----	154	UNCH
APR20	----	----	34.99 + 0.14		----	----	154	UNCH
MAY20	----	----	34.40 + 0.43		----	----	140	UNCH
JUN20	----	----	33.71 + 0.37		----	----	154	UNCH
JUL20	----	----	38.39 + 0.19		----	----	161	UNCH
AUG20	----	----	35.33 + 0.14		----	----	147	UNCH
SEP20	----	----	33.71 + 0.03		----	----	147	UNCH
OCT20	----	----	32.82 + 0.01		----	----	154	UNCH
NOV20	----	----	32.08 UNCH		----	----	140	UNCH
DEC20	----	----	33.66 - 0.02		----	----	154	UNCH
TOTAL H3 FUT							20034	
EJ FUT	CINERGY HUB OFF-PEAK MONTH							
NOV18	----	----	28.23 + 0.08		----	----	10	UNCH
DEC18	----	----	33.50 + 1.25		----	----	10	UNCH
TOTAL EJ FUT							20	
EM FUT	CINERGY HUB PEAK MONTH							
NOV18	----	----	40.65 + 1.04		----	----	24	UNCH
DEC18	----	----	45.50 + 2.12		----	----	24	UNCH
TOTAL EM FUT							48	
DEB FUT	GERMAN POWER BASELOAD CAL MONTH FUT							
NOV18	----	----	58.90 - 0.04		----	----	1	UNCH
DEC18	----	59.88B/58.62A	58.94 - 0.39		----	----	1	UNCH
JAN19	----	----	64.38 - 0.34		5	----	11 +	5
FEB19	----	----	62.94 + 0.29		5	----	11 +	5
MAR19	----	----	51.43 - 0.51		5	----	11 +	5
APR19	----	----	49.57 - 0.35		----	----	6	UNCH
MAY19	----	----	45.05 - 0.31		----	----	6	UNCH
JUN19	----	----	48.28 - 0.18		----	----	6	UNCH
JUL19	----	----	48.64 - 0.04		----	----	6	UNCH
AUG19	----	----	46.80 - 0.04		----	----	6	UNCH
SEP19	----	----	48.99 - 0.08		----	----	6	UNCH
OCT19	----	----	52.97 - 0.84		----	----	6	UNCH
NOV19	----	----	52.97 - 0.84		----	----	6	UNCH
DEC19	----	----	52.97 - 0.84		----	----	6	UNCH
TOTAL DEB FUT					15		89 +	15
IDO FUT	ISO NEW ENG MASS HUB DA OP DAILY							
09NOV18	----	----	36.48 UNCH		----	----	0 -	336
10NOV18	----	----	33.59 UNCH		----	----	1008	UNCH
11NOV18	----	----	40.13 UNCH		----	----	1008	UNCH
12NOV18	----	----	31.35 UNCH		----	----	336	UNCH
13NOV18	----	----	27.79 UNCH		----	----	336	UNCH
14NOV18	----	----	40.04 UNCH		----	----	336	UNCH
15NOV18	----	----	80.37 UNCH		----	----	336	UNCH
16NOV18	----	----	64.37 UNCH		----	----	336	UNCH
17NOV18	----	----	58.98 + 27.06		----	----	1008	UNCH
18NOV18	----	----	31.92 UNCH		----	----	1008	UNCH
19NOV18	----	----	31.92 UNCH		----	----	336	UNCH
20NOV18	----	----	31.92 UNCH		----	----	336	UNCH
21NOV18	----	----	31.92 UNCH		----	----	336	UNCH
22NOV18	----	----	31.92 UNCH		----	----	1008	UNCH
23NOV18	----	----	31.92 UNCH		----	----	336	UNCH
24NOV18	----	----	31.92 UNCH		----	----	1008	UNCH
25NOV18	----	----	31.92 UNCH		----	----	1008	UNCH
26NOV18	----	----	31.92 UNCH		----	----	336	UNCH
27NOV18	----	----	31.92 UNCH		----	----	336	UNCH
28NOV18	----	----	31.92 UNCH		----	----	336	UNCH
29NOV18	----	----	31.92 UNCH		----	----	336	UNCH
30NOV18	----	----	31.92 UNCH		----	----	336	UNCH
TOTAL IDO FUT							11760 -	336
HMW FUT	MIDWEST ISO MICHIGAN HUB 5MW PEAK C							
NOV18	----	----	39.53 UNCH		----	----	147	UNCH
DEC18	----	----	45.75 + 2.12		----	----	140	UNCH
TOTAL HMW FUT							287	
FAD FUT	MISO INDIANA HUB 5MW OFFPK CALDAY DA							
08NOV18	----	----	32.44 UNCH		----	----	0 -	280
09NOV18	----	----	29.95 UNCH		----	----	280	UNCH
10NOV18	----	----	32.60 UNCH		----	----	840	UNCH
11NOV18	----	----	30.89 UNCH		----	----	840	UNCH
12NOV18	----	----	31.11 UNCH		----	----	280	UNCH
13NOV18	----	----	32.99 UNCH		----	----	280	UNCH
14NOV18	----	----	35.46 UNCH		----	----	280	UNCH
15NOV18	----	----	34.93 UNCH		----	----	280	UNCH
16NOV18	----	----	33.65 UNCH		----	----	280	UNCH
17NOV18	----	----	37.15 + 8.90		----	----	840	UNCH
18NOV18	----	----	28.25 UNCH		----	----	840	UNCH
19NOV18	----	----	28.25 UNCH		----	----	280	UNCH
20NOV18	----	----	28.25 UNCH		----	----	280	UNCH
21NOV18	----	----	28.25 UNCH		----	----	280	UNCH
22NOV18	----	----	28.25 UNCH		----	----	840	UNCH
23NOV18	----	----	28.25 UNCH		----	----	280	UNCH
24NOV18	----	----	28.25 UNCH		----	----	840	UNCH
25NOV18	----	----	28.25 UNCH		----	----	840	UNCH
26NOV18	----	----	28.25 UNCH		----	----	280	UNCH
27NOV18	----	----	28.25 UNCH		----	----	280	UNCH
28NOV18	----	----	28.25 UNCH		----	----	280	UNCH
29NOV18	----	----	28.25 UNCH		----	----	280	UNCH
30NOV18	----	----	28.25 UNCH		----	----	280	UNCH
TOTAL FAD FUT							10080 -	280
FTD FUT	MISO INDIANA HUB 5MW OFFPK CALDAY RT							
08NOV18	----	----	28.70 UNCH		----	----	0 -	560
09NOV18	----	----	26.56 UNCH		----	----	560	UNCH
10NOV18	----	----	38.98 UNCH		----	----	1680	UNCH
11NOV18	----	----	28.94 UNCH		----	----	1680	UNCH
12NOV18	----	----	27.20 UNCH		----	----	560	UNCH
13NOV18	----	----	31.85 UNCH		----	----	560	UNCH
14NOV18	----	----	31.20 UNCH		----	----	560	UNCH
15NOV18	----	----	31.57 + 3.82		----	----	560	UNCH
16NOV18	----	----	27.75 UNCH		----	----	560	UNCH
17NOV18	----	----	27.75 UNCH		----	----	1680	UNCH



PRELIMINARY

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
FTD FUT MISO INDIANA HUB 5MW OFPK CALDAY RT									
18NOV18	----	----	27.75 UNCH		----	----	1680	UNCH	
19NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
20NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
21NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
22NOV18	----	----	27.75 UNCH		----	----	1680	UNCH	
23NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
24NOV18	----	----	27.75 UNCH		----	----	1680	UNCH	
25NOV18	----	----	27.75 UNCH		----	----	1680	UNCH	
26NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
27NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
28NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
29NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
30NOV18	----	----	27.75 UNCH		----	----	560	UNCH	
TOTAL FTD FUT							20160	- 560	
PDD FUT MISO INDIANA HUB 5MW PK CAL DAYHD									
08NOV18	----	----	43.81 UNCH		----	----	0	- 89	
09NOV18	----	----	38.50 UNCH		----	----	89	UNCH	
12NOV18	----	----	43.51 UNCH		----	----	89	UNCH	
13NOV18	----	----	47.12 UNCH		----	----	89	UNCH	
14NOV18	----	----	45.89 UNCH		----	----	89	UNCH	
15NOV18	----	----	45.05 UNCH		----	----	89	UNCH	
16NOV18	----	----	43.40 UNCH		----	----	89	UNCH	
19NOV18	----	----	43.40 + 5.90		----	----	89	UNCH	
20NOV18	----	----	38.50 + 1.00		----	----	89	UNCH	
21NOV18	----	----	38.50 + 1.00		----	----	89	UNCH	
23NOV18	----	----	38.50 + 1.00		----	----	89	UNCH	
26NOV18	----	----	43.50 + 1.00		----	----	89	UNCH	
27NOV18	----	----	43.50 + 1.00		----	----	89	UNCH	
28NOV18	----	----	43.50 + 1.00		----	----	89	UNCH	
29NOV18	----	----	43.50 + 1.00		----	----	89	UNCH	
30NOV18	----	----	43.50 + 1.00		----	----	89	UNCH	
TOTAL PDD FUT							1335	- 89	
PTD FUT MISO INDIANA HUB 5MW PK CAL-DAY RT									
07NOV18	----	----	34.97 UNCH		----	----	0	- 83	
08NOV18	----	----	42.41 UNCH		----	----	83	UNCH	
09NOV18	----	----	27.86 UNCH		----	----	83	UNCH	
12NOV18	----	----	41.35 UNCH		----	----	83	UNCH	
13NOV18	----	----	50.03 UNCH		----	----	83	UNCH	
14NOV18	----	----	46.40 UNCH		----	----	83	UNCH	
15NOV18	----	----	54.81 + 6.31		----	----	83	UNCH	
16NOV18	----	----	43.00 UNCH		----	----	83	UNCH	
19NOV18	----	----	45.00 + 7.50		----	----	83	UNCH	
20NOV18	----	----	38.50 + 1.00		----	----	83	UNCH	
21NOV18	----	----	38.50 + 1.00		----	----	83	UNCH	
23NOV18	----	----	38.50 + 1.00		----	----	83	UNCH	
26NOV18	----	----	43.50 + 1.00		----	----	83	UNCH	
27NOV18	----	----	43.50 + 1.00		----	----	83	UNCH	
28NOV18	----	----	43.50 + 1.00		----	----	83	UNCH	
29NOV18	----	----	43.50 + 1.00		----	----	83	UNCH	
30NOV18	----	----	43.50 + 1.00		----	----	83	UNCH	
TOTAL PTD FUT							1328	- 83	
HMO FUT MISO MICHIGAN HUB OF-PK DA MONTHLY									
NOV18	----	----	31.06 + 0.82		----	----	2688	UNCH	
DEC18	----	----	33.50 + 1.25		----	----	2968	UNCH	
TOTAL HMO FUT							5656		
UD FUT N ILLINOIS HUB DAILY									
14NOV18	----	----	48.59 UNCH		----	----	0	- 89	
15NOV18	----	----	49.07 + 3.07		----	----	89	UNCH	
16NOV18	----	----	39.00 UNCH		----	----	89	UNCH	
19NOV18	----	----	40.00 + 3.00		----	----	89	UNCH	
20NOV18	----	----	37.50 + 0.50		----	----	89	UNCH	
21NOV18	----	----	37.50 + 0.50		----	----	89	UNCH	
23NOV18	----	----	37.50 + 0.50		----	----	89	UNCH	
26NOV18	----	----	39.00 - 1.00		----	----	89	UNCH	
27NOV18	----	----	39.00 - 1.00		----	----	89	UNCH	
28NOV18	----	----	39.00 - 1.00		----	----	89	UNCH	
29NOV18	----	----	39.00 - 1.00		----	----	89	UNCH	
30NOV18	----	----	39.00 - 1.00		----	----	89	UNCH	
TOTAL UD FUT							979	- 89	
H2 FUT NEPOOL INTR HUB 5MW D AH O PK									
DEC18	----	----	75.43 + 1.93		----	----	19928	UNCH	
JAN19	----	----	93.63 + 1.25		----	----	13328	UNCH	
FEB19	----	----	91.50 + 1.25		----	----	11968	UNCH	
MAR19	----	----	59.50 + 1.25		----	----	19943	UNCH	
APR19	----	----	29.60 UNCH		----	----	8464	UNCH	
MAY19	----	----	23.48 + 0.03		----	----	9016	UNCH	
JUN19	----	----	24.48 + 0.10		----	----	9200	UNCH	
JUL19	----	----	27.39 + 0.37		----	----	12936	UNCH	
AUG19	----	----	25.91 + 0.33		----	----	12936	UNCH	
SEP19	----	----	23.88 + 0.15		----	----	13200	UNCH	
OCT19	----	----	25.10 - 0.05		----	----	12408	UNCH	
NOV19	----	----	32.00 UNCH		----	----	13233	UNCH	
DEC19	----	----	58.75 UNCH		----	----	13464	UNCH	
JAN20	----	----	84.01 + 0.47		----	----	13720	UNCH	
FEB20	----	----	80.99 + 0.53		----	----	13160	UNCH	
MAR20	----	----	47.15 + 0.40		----	----	13685	UNCH	
APR20	----	----	25.10 UNCH		----	----	12880	UNCH	
MAY20	----	----	23.10 UNCH		----	----	14840	UNCH	
JUN20	----	----	23.35 UNCH		----	----	12880	UNCH	
JUL20	----	----	25.92 UNCH		----	----	13160	UNCH	
AUG20	----	----	25.28 UNCH		----	----	14280	UNCH	
SEP20	----	----	22.25 UNCH		----	----	13440	UNCH	
OCT20	----	----	22.25 UNCH		----	----	13720	UNCH	
NOV20	----	----	30.10 UNCH		----	----	14035	UNCH	
DEC20	----	----	55.25 UNCH		----	----	13720	UNCH	
JAN21	----	----	79.29 + 0.27		----	----	10600	UNCH	
FEB21	----	----	76.21 + 0.23		----	----	8800	UNCH	
MAR21	----	----	44.35 + 0.20		----	----	9375	UNCH	
APR21	----	----	25.50 + 0.10		----	----	9200	UNCH	
MAY21	----	----	23.00 + 0.10		----	----	10600	UNCH	
JUN21	----	----	23.00 + 0.10		----	----	9200	UNCH	
JUL21	----	----	25.82 + 0.08		----	----	10200	UNCH	

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	GLOBEX OPEN			GLOBEX HIGH/LOW			SETT. PRICE & PT. CHGE			GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST				
H2 FUT																
	NEPOOL	INTR	HUB	5MW	D	AH	O	PK								
AUG21		----							25.18	+	0.12	----	----	9800	UNCH	
SEP21		----							22.25	+	0.10	----	----	9600	UNCH	
OCT21		----							22.50	+	0.10	----	----	10200	UNCH	
NOV21		----							30.25	+	0.10	----	----	9625	UNCH	
DEC21		----							55.00	+	0.10	----	----	9400	UNCH	
APR22		----							25.05	+	0.04	----	----	1152	UNCH	
MAY22		----							22.58	+	0.07	----	----	1224	UNCH	
JUN22		----							22.78	+	0.07	----	----	1104	UNCH	
JUL22		----							25.15	+	0.04	----	----	1272	UNCH	
AUG22		----							24.50	+	0.04	----	----	1128	UNCH	
SEP22		----							21.98	+	0.06	----	----	1152	UNCH	
OCT22		----							21.83	+	0.06	----	----	1224	UNCH	
TOTAL	H2 FUT											458400				
U6 FUT																
	NEPOOL	INTR	HUB	5MW	D	AH	O	PK								
DEC18		----							89.85	+	1.85	----	----	1480	UNCH	
JAN19		----							111.73	+	0.03	----	----	968	UNCH	
FEB19		----							106.73	+	0.08	----	----	880	UNCH	
MAR19		----							70.10	+	1.75	----	----	1029	UNCH	
APR19		----							39.65	+	0.15	----	----	968	UNCH	
MAY19		----							31.20	-	0.18	----	----	968	UNCH	
JUN19		----							32.33	-	0.02	----	----	880	UNCH	
JUL19		----							42.63	+	0.06	----	----	748	UNCH	
AUG19		----							40.52	+	0.04	----	----	748	UNCH	
SEP19		----							34.25	-	0.15	----	----	680	UNCH	
OCT19		----							33.75	-	0.03	----	----	782	UNCH	
NOV19		----							42.33	+	0.05	----	----	780	UNCH	
DEC19		----							70.00	+	1.10	----	----	819	UNCH	
JAN20		----							100.93	+	0.74	----	----	770	UNCH	
FEB20		----							99.37	+	0.76	----	----	700	UNCH	
MAR20		----							58.50	+	0.50	----	----	770	UNCH	
APR20		----							34.10	+	0.10	----	----	770	UNCH	
MAY20		----							30.90	+	0.05	----	----	700	UNCH	
JUN20		----							31.50	UNCH		----	----	770	UNCH	
JUL20		----							41.40	UNCH		----	----	805	UNCH	
AUG20		----							40.60	UNCH		----	----	735	UNCH	
SEP20		----							31.35	UNCH		----	----	735	UNCH	
OCT20		----							31.10	UNCH		----	----	770	UNCH	
NOV20		----							39.25	UNCH		----	----	700	UNCH	
DEC20		----							67.50	UNCH		----	----	770	UNCH	
JAN21		----							97.50	+	0.39	----	----	500	UNCH	
FEB21		----							93.80	+	0.41	----	----	500	UNCH	
MAR21		----							57.75	+	0.25	----	----	575	UNCH	
APR21		----							33.50	+	0.15	----	----	550	UNCH	
MAY21		----							30.50	+	0.15	----	----	500	UNCH	
JUN21		----							31.50	+	0.15	----	----	550	UNCH	
JUL21		----							42.03	+	0.13	----	----	525	UNCH	
AUG21		----							40.97	+	0.17	----	----	550	UNCH	
SEP21		----							31.50	+	0.15	----	----	525	UNCH	
OCT21		----							31.25	+	0.15	----	----	525	UNCH	
NOV21		----							40.25	+	0.15	----	----	525	UNCH	
DEC21		----							66.25	+	0.25	----	----	575	UNCH	
APR22		----							34.19	+	0.09	----	----	63	UNCH	
MAY22		----							30.60	+	0.05	----	----	63	UNCH	
JUN22		----							31.75	+	0.07	----	----	66	UNCH	
JUL22		----							39.88	+	0.09	----	----	60	UNCH	
AUG22		----							39.03	+	0.08	----	----	69	UNCH	
SEP22		----							32.54	+	0.07	----	----	63	UNCH	
OCT22		----							32.05	+	0.07	----	----	63	UNCH	
TOTAL	U6 FUT											27572				
P8 FUT																
	NEPOOL	NE	MASS	5MW	D	AH	O	PK								
JAN19		----							92.95	-	1.38	----	----	1176	UNCH	
FEB19		----							89.82	-	1.21	----	----	1056	UNCH	
MAR19		----							60.18	-	0.50	----	----	1221	UNCH	
APR19		----							29.69	+	1.12	----	----	1104	UNCH	
MAY19		----							23.88	+	0.62	----	----	1176	UNCH	
JUN19		----							24.88	+	0.95	----	----	1200	UNCH	
JUL19		----							26.57	+	0.49	----	----	1176	UNCH	
AUG19		----							26.07	+	0.47	----	----	1176	UNCH	
SEP19		----							23.93	+	0.57	----	----	1200	UNCH	
OCT19		----							25.87	+	0.98	----	----	1128	UNCH	
NOV19		----							33.62	+	1.27	----	----	1203	UNCH	
DEC19		----							59.73	+	2.01	----	----	1224	UNCH	
TOTAL	P8 FUT											14040				
P7 FUT																
	NEPOOL	NE	MASS	5MW	D	AH	O	PK								
JAN19		----							111.54	-	2.14	----	----	66	UNCH	
FEB19		----							108.34	-	2.60	----	----	60	UNCH	
MAR19		----							69.09	-	3.31	----	----	63	UNCH	
APR19		----							40.70	+	1.15	----	----	66	UNCH	
MAY19		----							32.14	+	1.12	----	----	66	UNCH	
JUN19		----							34.59	+	2.56	----	----	60	UNCH	
JUL19		----							42.30	+	1.40	----	----	66	UNCH	
AUG19		----							42.60	+	1.42	----	----	66	UNCH	
SEP19		----							35.14	+	1.20	----	----	60	UNCH	
OCT19		----							34.34	+	0.87	----	----	69	UNCH	
NOV19		----							42.95	+	1.43	----	----	60	UNCH	
DEC19		----							71.04	+	1.66	----	----	63	UNCH	
TOTAL	P7 FUT											765				
CE FUT																
	NEW ENGLAND HUB PEAK DAILY															
01NOV18		----							37.57	UNCH		----	----	0	-	69
02NOV18		----							35.58	UNCH		----	----	69		UNCH
05NOV18		----							41.90	UNCH		----	----	69		UNCH
06NOV18		----							37.36	UNCH		----	----	69		UNCH
07NOV18		----							31.51	UNCH		----	----	69		UNCH
08NOV18		----							37.14	UNCH		----	----	69		UNCH
09NOV18		----							44.07	UNCH		----	----	69		UNCH
12NOV18		----							45.53	UNCH		----	----	69		UNCH
13NOV18		----							44.47	UNCH		----	----	69		UNCH
14NOV18		----							68.89	UNCH		----	----	69		UNCH
15NOV18		----							90.30	UNCH		----	----	69		UNCH
16NOV18		----							71.51	UNCH		----	----	69		UNCH
19NOV18		----							38.25	UNCH		----	----	69		UNCH
20NOV18		----							38.25	UNCH		----	----	69		UNCH
21NOV18		----							38.25	UNCH		----	----	69		UNCH



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ENERGY FUTURES PRODUCTS

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	CE FUT	GN FUT	JN FUT	LHV FUT	NNC FUT	NRS FUT		
	NEW ENGLAND HUB PEAK DAILY	NEW YORK HUB ZONE G PEAK DAILY	NEW YORK HUB ZONE J PEAK DAILY	NYISO LOW HUD VAL CAP FUT	NYISO NYC IN-CITY CAPACITY CAL MO	NYISO REST OF STATE CAPACITY CAL MO		
	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
23NOV18	----	----	38.25	UNCH	----	----	69	UNCH
26NOV18	----	----	38.25	UNCH	----	----	69	UNCH
27NOV18	----	----	38.25	UNCH	----	----	69	UNCH
28NOV18	----	----	38.25	UNCH	----	----	69	UNCH
29NOV18	----	----	38.25	UNCH	----	----	69	UNCH
30NOV18	----	----	38.25	UNCH	----	----	69	UNCH
TOTAL CE FUT							1380	- 69
01NOV18	----	----	32.67	UNCH	----	----	0	- 72
02NOV18	----	----	34.85	UNCH	----	----	72	UNCH
05NOV18	----	----	37.13	UNCH	----	----	72	UNCH
06NOV18	----	----	37.15	UNCH	----	----	72	UNCH
07NOV18	----	----	35.46	UNCH	----	----	72	UNCH
08NOV18	----	----	36.93	UNCH	----	----	72	UNCH
09NOV18	----	----	40.74	UNCH	----	----	72	UNCH
12NOV18	----	----	40.91	UNCH	----	----	72	UNCH
13NOV18	----	----	41.40	UNCH	----	----	72	UNCH
14NOV18	----	----	43.88	UNCH	----	----	72	UNCH
15NOV18	----	----	58.01	UNCH	----	----	72	UNCH
16NOV18	----	----	53.66	UNCH	----	----	72	UNCH
19NOV18	----	----	36.12	UNCH	----	----	72	UNCH
20NOV18	----	----	36.12	UNCH	----	----	72	UNCH
21NOV18	----	----	36.12	UNCH	----	----	72	UNCH
23NOV18	----	----	36.12	UNCH	----	----	72	UNCH
26NOV18	----	----	36.12	UNCH	----	----	72	UNCH
27NOV18	----	----	36.12	UNCH	----	----	72	UNCH
28NOV18	----	----	36.12	UNCH	----	----	72	UNCH
29NOV18	----	----	36.12	UNCH	----	----	72	UNCH
30NOV18	----	----	36.12	UNCH	----	----	72	UNCH
TOTAL GN FUT							1440	- 72
01NOV18	----	----	40.70	UNCH	----	----	0	- 20
02NOV18	----	----	35.57	UNCH	----	----	20	UNCH
05NOV18	----	----	37.75	UNCH	----	----	20	UNCH
06NOV18	----	----	38.41	UNCH	----	----	20	UNCH
07NOV18	----	----	36.23	UNCH	----	----	20	UNCH
08NOV18	----	----	37.82	UNCH	----	----	20	UNCH
09NOV18	----	----	41.59	UNCH	----	----	20	UNCH
12NOV18	----	----	42.38	UNCH	----	----	20	UNCH
13NOV18	----	----	43.65	UNCH	----	----	20	UNCH
14NOV18	----	----	46.64	UNCH	----	----	20	UNCH
15NOV18	----	----	58.93	UNCH	----	----	20	UNCH
16NOV18	----	----	54.56	UNCH	----	----	20	UNCH
19NOV18	----	----	37.68	UNCH	----	----	20	UNCH
20NOV18	----	----	37.68	UNCH	----	----	20	UNCH
21NOV18	----	----	37.68	UNCH	----	----	20	UNCH
23NOV18	----	----	37.68	UNCH	----	----	20	UNCH
26NOV18	----	----	37.68	UNCH	----	----	20	UNCH
27NOV18	----	----	37.68	UNCH	----	----	20	UNCH
28NOV18	----	----	37.68	UNCH	----	----	20	UNCH
29NOV18	----	----	37.68	UNCH	----	----	20	UNCH
30NOV18	----	----	37.68	UNCH	----	----	20	UNCH
TOTAL JN FUT							400	- 20
DEC18	----	----	1.83	UNCH	----	----	48	UNCH
JAN19	----	----	1.83	UNCH	----	----	40	UNCH
FEB19	----	----	1.83	UNCH	----	----	40	UNCH
MAR19	----	----	1.83	UNCH	----	----	40	UNCH
APR19	----	----	1.83	UNCH	----	----	40	UNCH
MAY19	----	----	6.49	- 0.01	----	----	17	UNCH
JUN19	----	----	6.49	- 0.01	----	----	17	UNCH
JUL19	----	----	6.49	- 0.01	----	----	17	UNCH
AUG19	----	----	6.49	- 0.01	----	----	17	UNCH
SEP19	----	----	6.49	- 0.01	----	----	17	UNCH
OCT19	----	----	6.49	- 0.01	----	----	17	UNCH
NOV19	----	----	1.18	UNCH	----	----	67	UNCH
DEC19	----	----	1.18	UNCH	----	----	67	UNCH
JAN20	----	----	1.18	UNCH	----	----	30	UNCH
FEB20	----	----	1.18	UNCH	----	----	30	UNCH
MAR20	----	----	1.18	UNCH	----	----	30	UNCH
APR20	----	----	1.18	UNCH	----	----	30	UNCH
MAY20	----	----	7.76	- 0.01	----	----	5	UNCH
JUN20	----	----	7.76	- 0.01	----	----	5	UNCH
JUL20	----	----	7.76	- 0.01	----	----	5	UNCH
AUG20	----	----	7.76	- 0.01	----	----	5	UNCH
SEP20	----	----	7.76	- 0.01	----	----	5	UNCH
OCT20	----	----	7.76	- 0.01	----	----	5	UNCH
NOV20	----	----	1.00	UNCH	----	----	5	UNCH
DEC20	----	----	1.00	UNCH	----	----	5	UNCH
TOTAL LHV FUT							604	
DEC18	----	----	1.83	UNCH	----	----	47	UNCH
JAN19	----	----	1.83	UNCH	----	----	41	UNCH
FEB19	----	----	1.83	UNCH	----	----	41	UNCH
MAR19	----	----	1.83	UNCH	----	----	41	UNCH
APR19	----	----	1.83	UNCH	----	----	41	UNCH
MAY19	----	----	14.00	- 0.25	----	----	28	UNCH
JUN19	----	----	14.00	- 0.25	----	----	28	UNCH
JUL19	----	----	14.00	- 0.25	----	----	28	UNCH
AUG19	----	----	14.00	- 0.25	----	----	28	UNCH
SEP19	----	----	14.00	- 0.25	----	----	28	UNCH
OCT19	----	----	14.00	- 0.25	----	----	28	UNCH
NOV19	----	----	3.13	UNCH	----	----	3	UNCH
DEC19	----	----	3.13	UNCH	----	----	3	UNCH
TOTAL NNC FUT							385	
DEC18	----	----	0.14	- 0.02	----	----	66	UNCH
JAN19	----	----	0.14	- 0.02	----	----	27	UNCH
FEB19	----	----	0.14	- 0.02	----	----	27	UNCH
MAR19	----	----	0.14	- 0.02	----	----	27	UNCH
APR19	----	----	0.14	- 0.02	----	----	27	UNCH
MAY19	----	----	1.78	UNCH	----	----	35	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NRS FUT NYISO REST OF STATE CAPACITY CAL MO								
JUN19	----	----	1.78 UNCH		----	----	35	UNCH
JUL19	----	----	1.78 UNCH		----	----	35	UNCH
AUG19	----	----	1.78 UNCH		----	----	35	UNCH
SEP19	----	----	1.78 UNCH		----	----	35	UNCH
OCT19	----	----	1.78 UNCH		----	----	35	UNCH
NOV19	----	----	0.55 UNCH		----	----	12	UNCH
DEC19	----	----	0.55 UNCH		----	----	12	UNCH
JAN20	----	----	0.55 UNCH		----	----	7	UNCH
FEB20	----	----	0.55 UNCH		----	----	7	UNCH
MAR20	----	----	0.55 UNCH		----	----	7	UNCH
APR20	----	----	0.55 UNCH		----	----	7	UNCH
TOTAL NRS FUT							436	
K4 FUT NYISO ZONE A 5MW D AH O PK								
DEC18	----	----	37.83 + 0.46		----	----	12296	UNCH
JAN19	----	----	46.60 + 0.92		----	----	5880	UNCH
FEB19	----	----	42.10 + 2.15		----	----	5280	UNCH
MAR19	----	----	30.40 - 1.60		----	----	6105	UNCH
APR19	----	----	19.00 + 0.10		----	----	5520	UNCH
MAY19	----	----	19.08 + 0.08		----	----	784	UNCH
JUN19	----	----	19.93 - 0.02		----	----	800	UNCH
JUL19	----	----	26.16 - 0.18		----	----	784	UNCH
AUG19	----	----	23.59 - 0.22		----	----	784	UNCH
SEP19	----	----	19.88 - 0.07		----	----	800	UNCH
OCT19	----	----	17.26 + 0.14		----	----	752	UNCH
NOV19	----	----	18.08 + 0.15		----	----	802	UNCH
DEC19	----	----	23.31 + 0.23		----	----	816	UNCH
JAN20	----	----	33.53 + 0.63		----	----	784	UNCH
FEB20	----	----	30.97 + 0.57		----	----	752	UNCH
MAR20	----	----	23.90 + 0.30		----	----	782	UNCH
APR20	----	----	17.40 + 0.30		----	----	736	UNCH
MAY20	----	----	17.40 + 0.30		----	----	848	UNCH
JUN20	----	----	18.40 + 0.30		----	----	736	UNCH
JUL20	----	----	24.88 + 0.24		----	----	752	UNCH
AUG20	----	----	22.62 + 0.26		----	----	816	UNCH
SEP20	----	----	17.75 + 0.25		----	----	768	UNCH
OCT20	----	----	15.50 + 0.23		----	----	784	UNCH
NOV20	----	----	17.13 + 0.26		----	----	802	UNCH
DEC20	----	----	20.63 + 0.27		----	----	784	UNCH
TOTAL K4 FUT							50747	
K3 FUT NYISO ZONE A 5MW D AH PK								
DEC18	----	----	50.00 + 2.00		----	----	660	UNCH
JAN19	----	----	66.10 + 1.35		----	----	550	UNCH
FEB19	----	----	60.85 + 1.15		----	----	500	UNCH
MAR19	----	----	45.00 + 0.75		----	----	525	UNCH
APR19	----	----	34.43 + 0.13		----	----	550	UNCH
MAY19	----	----	35.70 + 0.10		----	----	264	UNCH
JUN19	----	----	36.90 + 0.05		----	----	240	UNCH
JUL19	----	----	49.05 - 0.06		----	----	264	UNCH
AUG19	----	----	45.50 - 0.09		----	----	264	UNCH
SEP19	----	----	35.85 UNCH		----	----	240	UNCH
OCT19	----	----	30.70 - 0.06		----	----	276	UNCH
NOV19	----	----	29.22 + 0.05		----	----	240	UNCH
DEC19	----	----	33.45 - 0.22		----	----	252	UNCH
TOTAL K3 FUT							4825	
ZAO FUT NYISO ZONE A DA OP DAILY								
09NOV18	----	----	23.90 UNCH		----	----	0	232
10NOV18	----	----	22.57 UNCH		----	----	696	UNCH
11NOV18	----	----	28.16 UNCH		----	----	696	UNCH
12NOV18	----	----	26.88 UNCH		----	----	232	UNCH
13NOV18	----	----	24.79 UNCH		----	----	232	UNCH
14NOV18	----	----	24.07 UNCH		----	----	232	UNCH
15NOV18	----	----	33.04 UNCH		----	----	232	UNCH
16NOV18	----	----	26.78 UNCH		----	----	232	UNCH
17NOV18	----	----	30.35 + 8.45		----	----	696	UNCH
18NOV18	----	----	21.90 UNCH		----	----	696	UNCH
19NOV18	----	----	21.90 UNCH		----	----	232	UNCH
20NOV18	----	----	21.90 UNCH		----	----	232	UNCH
21NOV18	----	----	21.90 UNCH		----	----	232	UNCH
22NOV18	----	----	21.90 UNCH		----	----	696	UNCH
23NOV18	----	----	21.90 UNCH		----	----	232	UNCH
24NOV18	----	----	21.90 UNCH		----	----	696	UNCH
25NOV18	----	----	21.90 UNCH		----	----	696	UNCH
26NOV18	----	----	21.90 UNCH		----	----	232	UNCH
27NOV18	----	----	21.90 UNCH		----	----	232	UNCH
28NOV18	----	----	21.90 UNCH		----	----	232	UNCH
29NOV18	----	----	21.90 UNCH		----	----	232	UNCH
30NOV18	----	----	21.90 UNCH		----	----	232	UNCH
TOTAL ZAO FUT							8120	232
AN FUT NYISO ZONE A LBMP FUTURE								
01NOV18	----	----	30.18 UNCH		----	----	0	33
02NOV18	----	----	32.13 UNCH		----	----	33	UNCH
05NOV18	----	----	31.22 UNCH		----	----	33	UNCH
06NOV18	----	----	28.52 UNCH		----	----	33	UNCH
07NOV18	----	----	30.50 UNCH		----	----	33	UNCH
08NOV18	----	----	34.47 UNCH		----	----	33	UNCH
09NOV18	----	----	36.66 UNCH		----	----	33	UNCH
12NOV18	----	----	37.62 UNCH		----	----	33	UNCH
13NOV18	----	----	37.77 UNCH		----	----	33	UNCH
14NOV18	----	----	48.07 UNCH		----	----	33	UNCH
15NOV18	----	----	51.13 UNCH		----	----	33	UNCH
16NOV18	----	----	44.26 UNCH		----	----	33	UNCH
19NOV18	----	----	33.80 UNCH		----	----	33	UNCH
20NOV18	----	----	33.80 UNCH		----	----	33	UNCH
21NOV18	----	----	33.80 UNCH		----	----	33	UNCH
23NOV18	----	----	33.80 UNCH		----	----	33	UNCH
26NOV18	----	----	33.80 UNCH		----	----	33	UNCH
27NOV18	----	----	33.80 UNCH		----	----	33	UNCH
28NOV18	----	----	33.80 UNCH		----	----	33	UNCH
29NOV18	----	----	33.80 UNCH		----	----	33	UNCH
30NOV18	----	----	33.80 UNCH		----	----	33	UNCH
TOTAL AN FUT							660	33
4M FUT NYISO ZONE F 5MW DAY AHEAD OFF-PEAK								



PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
4M FUT NYISO ZONE F 5MW DAY AHEAD OFF-PEAK							
NOV18	----	----	29.57 + 0.68	----	----	5775	UNCH
DEC18	----	----	56.25 + 1.65	----	----	6360	UNCH
TOTAL 4M FUT						12135	
4L FUT NYISO ZONE F 5MW DAY AHEAD PEAK							
NOV18	----	----	39.33 UNCH	----	----	315	UNCH
DEC18	----	----	66.75 + 2.75	----	----	300	UNCH
TOTAL 4L FUT						615	
D2 FUT NYISO ZONE G 5MW D AH O PK							
DEC18	----	----	52.21 + 1.76	----	----	24168	UNCH
JAN19	----	----	71.95 + 2.10	----	----	34496	UNCH
FEB19	----	----	65.60 + 2.15	----	----	30976	UNCH
MAR19	----	----	44.00 + 1.75	----	----	25641	UNCH
APR19	----	----	25.45 + 0.05	----	----	19504	UNCH
MAY19	----	----	22.13 + 0.25	----	----	20776	UNCH
JUN19	----	----	22.73 + 0.20	----	----	21200	UNCH
JUL19	----	----	27.19 + 0.34	----	----	20776	UNCH
AUG19	----	----	26.16 + 0.31	----	----	20776	UNCH
SEP19	----	----	22.50 + 0.20	----	----	21200	UNCH
OCT19	----	----	21.65 + 0.05	----	----	19928	UNCH
NOV19	----	----	25.70 + 0.10	----	----	21253	UNCH
DEC19	----	----	40.40 + 0.25	----	----	21624	UNCH
JAN20	----	----	56.77 - 0.03	----	----	50960	UNCH
FEB20	----	----	53.23 + 0.03	----	----	48880	UNCH
MAR20	----	----	32.50 UNCH	----	----	11730	UNCH
APR20	----	----	22.25 UNCH	----	----	18400	UNCH
MAY20	----	----	20.25 UNCH	----	----	21200	UNCH
JUN20	----	----	21.50 UNCH	----	----	18400	UNCH
JUL20	----	----	24.00 UNCH	----	----	18800	UNCH
AUG20	----	----	23.00 UNCH	----	----	20400	UNCH
SEP20	----	----	21.20 UNCH	----	----	19200	UNCH
OCT20	----	----	20.99 - 0.02	----	----	19600	UNCH
NOV20	----	----	24.38 - 0.02	----	----	16040	UNCH
DEC20	----	----	36.39 + 0.05	----	----	15680	UNCH
JAN21	----	----	56.22 + 0.26	----	----	2120	UNCH
FEB21	----	----	52.28 + 0.24	----	----	1760	UNCH
MAR21	----	----	31.75 + 0.25	----	----	1875	UNCH
TOTAL D2 FUT						587363	
T3 FUT NYISO ZONE G 5MW D AH PK							
DEC18	----	----	63.88 + 2.93	----	----	1440	UNCH
JAN19	----	----	88.35 + 0.47	----	----	924	UNCH
FEB19	----	----	82.85 - 0.90	----	----	840	UNCH
MAR19	----	----	52.70 + 0.45	----	----	987	UNCH
APR19	----	----	35.88 + 0.43	----	----	704	UNCH
MAY19	----	----	32.53 + 0.10	----	----	704	UNCH
JUN19	----	----	32.68 + 0.03	----	----	640	UNCH
JUL19	----	----	39.93 + 0.25	----	----	836	UNCH
AUG19	----	----	39.93 + 0.25	----	----	836	UNCH
SEP19	----	----	33.68 + 0.03	----	----	640	UNCH
OCT19	----	----	31.60 + 0.10	----	----	736	UNCH
NOV19	----	----	32.65 + 0.15	----	----	740	UNCH
DEC19	----	----	48.50 + 0.50	----	----	777	UNCH
JAN20	----	----	71.88 - 0.01	----	----	1628	UNCH
FEB20	----	----	71.12 + 0.01	----	----	1480	UNCH
MAR20	----	----	42.00 UNCH	----	----	308	UNCH
APR20	----	----	32.50 UNCH	----	----	748	UNCH
MAY20	----	----	29.75 UNCH	----	----	680	UNCH
JUN20	----	----	31.75 UNCH	----	----	748	UNCH
JUL20	----	----	38.80 - 0.01	----	----	782	UNCH
AUG20	----	----	36.70 + 0.01	----	----	714	UNCH
SEP20	----	----	31.50 UNCH	----	----	714	UNCH
OCT20	----	----	28.54 - 0.10	----	----	748	UNCH
NOV20	----	----	31.07 - 0.06	----	----	480	UNCH
DEC20	----	----	44.19 + 0.16	----	----	528	UNCH
JAN21	----	----	71.36 + 0.23	----	----	100	UNCH
FEB21	----	----	70.14 + 0.27	----	----	100	UNCH
MAR21	----	----	41.25 + 0.25	----	----	115	UNCH
APR21	----	----	36.00 + 0.50	----	----	220	UNCH
MAY21	----	----	33.25 + 0.50	----	----	200	UNCH
JUN21	----	----	35.25 + 0.50	----	----	220	UNCH
JUL21	----	----	42.33 + 0.49	----	----	210	UNCH
AUG21	----	----	40.17 + 0.51	----	----	220	UNCH
SEP21	----	----	35.00 + 0.50	----	----	210	UNCH
OCT21	----	----	31.28 + 0.37	----	----	210	UNCH
NOV21	----	----	34.89 + 0.45	----	----	210	UNCH
DEC21	----	----	48.88 + 0.68	----	----	230	UNCH
TOTAL T3 FUT						22607	
ZGO FUT NYISO ZONE G DA OP DAILY							
09NOV18	----	----	28.22 UNCH	----	----	0	456
10NOV18	----	----	28.55 UNCH	----	----	1368	UNCH
11NOV18	----	----	31.18 UNCH	----	----	1368	UNCH
12NOV18	----	----	32.69 UNCH	----	----	456	UNCH
13NOV18	----	----	31.73 UNCH	----	----	456	UNCH
14NOV18	----	----	33.02 UNCH	----	----	456	UNCH
15NOV18	----	----	40.89 UNCH	----	----	456	UNCH
16NOV18	----	----	38.21 UNCH	----	----	456	UNCH
17NOV18	----	----	37.59 + 9.62	----	----	1368	UNCH
18NOV18	----	----	27.97 UNCH	----	----	1368	UNCH
19NOV18	----	----	27.97 UNCH	----	----	456	UNCH
20NOV18	----	----	27.97 UNCH	----	----	456	UNCH
21NOV18	----	----	27.97 UNCH	----	----	456	UNCH
22NOV18	----	----	27.97 UNCH	----	----	1368	UNCH
23NOV18	----	----	27.97 UNCH	----	----	456	UNCH
24NOV18	----	----	27.97 UNCH	----	----	1368	UNCH
25NOV18	----	----	27.97 UNCH	----	----	1368	UNCH
26NOV18	----	----	27.97 UNCH	----	----	456	UNCH
27NOV18	----	----	27.97 UNCH	----	----	456	UNCH
28NOV18	----	----	27.97 UNCH	----	----	456	UNCH
29NOV18	----	----	27.97 UNCH	----	----	456	UNCH
30NOV18	----	----	27.97 UNCH	----	----	456	UNCH
TOTAL ZGO FUT						15960	456
D4 FUT NYISO ZONE J 5MW D AH O PK							
DEC18	----	----	53.95 + 1.60	----	----	10600	UNCH

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PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	NYISO ZONE J	5MW	D	AH	O	PK	SETT. PRICE & PT. CHGE	GLOBAL [®] VOLUME	PNT/PIT VOLUME	OPEN INTEREST		
D4 FUT												
JAN19	----	----	----	----	----	----	75.20 + 2.10	----	----	11760	UNCH	
FEB19	----	----	----	----	----	----	68.35 + 2.15	----	----	10560	UNCH	
MAR19	----	----	----	----	----	----	46.25 + 1.75	----	----	12210	UNCH	
APR19	----	----	----	----	----	----	26.45 + 0.05	----	----	11040	UNCH	
MAY19	----	----	----	----	----	----	22.95 + 0.05	----	----	11760	UNCH	
JUN19	----	----	----	----	----	----	23.95 + 0.05	----	----	12000	UNCH	
JUL19	----	----	----	----	----	----	29.68 - 0.24	----	----	11760	UNCH	
AUG19	----	----	----	----	----	----	27.82 - 0.26	----	----	11760	UNCH	
SEP19	----	----	----	----	----	----	23.80 - 0.05	----	----	12000	UNCH	
OCT19	----	----	----	----	----	----	22.70 + 0.05	----	----	11280	UNCH	
NOV19	----	----	----	----	----	----	26.95 + 0.10	----	----	12030	UNCH	
DEC19	----	----	----	----	----	----	41.90 + 0.25	----	----	12240	UNCH	
JAN20	----	----	----	----	----	----	59.01 - 0.04	----	----	1176	UNCH	
FEB20	----	----	----	----	----	----	56.99 + 0.04	----	----	1128	UNCH	
MAR20	----	----	----	----	----	----	34.85 UNCH	----	----	1173	UNCH	
APR20	----	----	----	----	----	----	23.60 UNCH	----	----	1104	UNCH	
MAY20	----	----	----	----	----	----	21.85 UNCH	----	----	1272	UNCH	
JUN20	----	----	----	----	----	----	23.10 UNCH	----	----	1104	UNCH	
JUL20	----	----	----	----	----	----	26.59 UNCH	----	----	1128	UNCH	
AUG20	----	----	----	----	----	----	26.11 UNCH	----	----	1224	UNCH	
SEP20	----	----	----	----	----	----	23.05 UNCH	----	----	1152	UNCH	
OCT20	----	----	----	----	----	----	22.63 - 0.02	----	----	1176	UNCH	
NOV20	----	----	----	----	----	----	25.44 - 0.02	----	----	1203	UNCH	
DEC20	----	----	----	----	----	----	38.48 + 0.04	----	----	1176	UNCH	
TOTAL	D4 FUT										165016	
D3 FUT												
DEC18	----	----	----	----	----	----	67.30 + 3.67	----	----	400	UNCH	
JAN19	----	----	----	----	----	----	96.85 + 2.60	----	----	770	UNCH	
FEB19	----	----	----	----	----	----	90.55 + 2.10	----	----	700	UNCH	
MAR19	----	----	----	----	----	----	58.40 + 0.75	----	----	735	UNCH	
APR19	----	----	----	----	----	----	39.90 UNCH	----	----	770	UNCH	
MAY19	----	----	----	----	----	----	35.83 + 0.15	----	----	770	UNCH	
JUN19	----	----	----	----	----	----	36.03 + 0.13	----	----	1000	UNCH	
JUL19	----	----	----	----	----	----	46.89 + 0.03	----	----	1210	UNCH	
AUG19	----	----	----	----	----	----	44.61 + 0.02	----	----	1100	UNCH	
SEP19	----	----	----	----	----	----	37.03 - 0.07	----	----	700	UNCH	
OCT19	----	----	----	----	----	----	34.85 UNCH	----	----	805	UNCH	
NOV19	----	----	----	----	----	----	34.90 + 0.05	----	----	700	UNCH	
DEC19	----	----	----	----	----	----	52.25 + 0.35	----	----	735	UNCH	
JAN20	----	----	----	----	----	----	81.26 - 0.01	----	----	176	UNCH	
FEB20	----	----	----	----	----	----	78.54 + 0.01	----	----	160	UNCH	
MAR20	----	----	----	----	----	----	47.65 UNCH	----	----	176	UNCH	
APR20	----	----	----	----	----	----	36.50 UNCH	----	----	176	UNCH	
MAY20	----	----	----	----	----	----	33.25 UNCH	----	----	160	UNCH	
JUN20	----	----	----	----	----	----	35.25 UNCH	----	----	176	UNCH	
JUL20	----	----	----	----	----	----	45.84 UNCH	----	----	184	UNCH	
AUG20	----	----	----	----	----	----	42.16 UNCH	----	----	168	UNCH	
SEP20	----	----	----	----	----	----	35.10 UNCH	----	----	168	UNCH	
OCT20	----	----	----	----	----	----	30.65 - 0.11	----	----	176	UNCH	
NOV20	----	----	----	----	----	----	32.54 - 0.08	----	----	160	UNCH	
DEC20	----	----	----	----	----	----	50.67 + 0.20	----	----	176	UNCH	
TOTAL	D3 FUT										12451	
Z30 FUT												
09NOV18	----	----	----	----	----	----	28.75 UNCH	----	----	0	- 200	
10NOV18	----	----	----	----	----	----	29.09 UNCH	----	----	600	UNCH	
11NOV18	----	----	----	----	----	----	31.81 UNCH	----	----	600	UNCH	
12NOV18	----	----	----	----	----	----	33.26 UNCH	----	----	200	UNCH	
13NOV18	----	----	----	----	----	----	32.24 UNCH	----	----	200	UNCH	
14NOV18	----	----	----	----	----	----	33.52 UNCH	----	----	200	UNCH	
15NOV18	----	----	----	----	----	----	41.40 UNCH	----	----	200	UNCH	
16NOV18	----	----	----	----	----	----	38.66 UNCH	----	----	200	UNCH	
17NOV18	----	----	----	----	----	----	38.06 + 9.06	----	----	600	UNCH	
18NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	600	UNCH	
19NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
20NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
21NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
22NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	600	UNCH	
23NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
24NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	600	UNCH	
25NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	600	UNCH	
26NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
27NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
28NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
29NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
30NOV18	----	----	----	----	----	----	29.00 UNCH	----	----	200	UNCH	
TOTAL	Z30 FUT										7000	- 200
V3 FUT												
DEC18	----	----	----	----	----	----	37.86 + 0.36	----	----	10600	UNCH	
JAN19	----	----	----	----	----	----	45.91 + 0.53	----	----	17248	UNCH	
FEB19	----	----	----	----	----	----	42.34 + 0.47	----	----	15488	UNCH	
MAR19	----	----	----	----	----	----	35.97 - 0.25	----	----	13838	UNCH	
APR19	----	----	----	----	----	----	26.53 + 1.50	----	----	12512	UNCH	
MAY19	----	----	----	----	----	----	25.18 + 0.05	----	----	12544	UNCH	
JUN19	----	----	----	----	----	----	25.25 + 0.05	----	----	8800	UNCH	
JUL19	----	----	----	----	----	----	27.27 + 0.10	----	----	8624	UNCH	
AUG19	----	----	----	----	----	----	25.03 + 0.05	----	----	8624	UNCH	
SEP19	----	----	----	----	----	----	25.20 + 0.10	----	----	8800	UNCH	
OCT19	----	----	----	----	----	----	23.86 + 0.04	----	----	8272	UNCH	
NOV19	----	----	----	----	----	----	24.93 + 0.04	----	----	8822	UNCH	
DEC19	----	----	----	----	----	----	28.62 + 0.08	----	----	8976	UNCH	
JAN20	----	----	----	----	----	----	40.04 - 0.53	----	----	2744	UNCH	
FEB20	----	----	----	----	----	----	36.85 - 0.50	----	----	2632	UNCH	
MAR20	----	----	----	----	----	----	28.09 + 0.15	----	----	2737	UNCH	
APR20	----	----	----	----	----	----	24.89 + 0.17	----	----	2576	UNCH	
MAY20	----	----	----	----	----	----	23.02 + 0.15	----	----	2968	UNCH	
JUN20	----	----	----	----	----	----	23.12 + 0.15	----	----	2576	UNCH	
JUL20	----	----	----	----	----	----	25.97 + 0.13	----	----	2632	UNCH	
AUG20	----	----	----	----	----	----	23.86 + 0.16	----	----	2856	UNCH	
SEP20	----	----	----	----	----	----	23.02 + 0.15	----	----	2688	UNCH	
OCT20	----	----	----	----	----	----	22.78 + 0.15	----	----	2744	UNCH	
NOV20	----	----	----	----	----	----	22.97 + 0.15	----	----	2807	UNCH	
DEC20	----	----	----	----	----	----	25.33 + 0.12	----	----	2744	UNCH	
JAN21	----	----	----	----	----	----	36.04 + 0.96	----	----	2120	UNCH	
FEB21	----	----	----	----	----	----	32.95 + 0.87	----	----	1760	UNCH	

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PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
V3 FUT	PJM AD HUB 5MW REAL TIME O PK						
MAR21	----	----	27.49 - 0.20	----	----	1875	UNCH
APR21	----	----	23.71 - 0.19	----	----	1840	UNCH
MAY21	----	----	21.52 - 0.16	----	----	2120	UNCH
JUN21	----	----	22.17 - 0.15	----	----	1840	UNCH
JUL21	----	----	24.95 - 0.18	----	----	2040	UNCH
AUG21	----	----	22.66 - 0.15	----	----	1960	UNCH
SEP21	----	----	22.02 - 0.15	----	----	1920	UNCH
OCT21	----	----	21.77 - 0.16	----	----	2040	UNCH
NOV21	----	----	21.97 - 0.15	----	----	1925	UNCH
DEC21	----	----	24.55 - 0.19	----	----	1880	UNCH
JAN22	----	----	33.27 - 0.10	----	----	1632	UNCH
FEB22	----	----	30.54 - 0.07	----	----	1408	UNCH
MAR22	----	----	26.52 - 0.05	----	----	1500	UNCH
APR22	----	----	22.80 - 0.02	----	----	1536	UNCH
MAY22	----	----	20.91 + 0.01	----	----	1632	UNCH
JUN22	----	----	21.16 + 0.02	----	----	1472	UNCH
JUL22	----	----	23.49 - 0.02	----	----	1696	UNCH
AUG22	----	----	21.75 - 0.04	----	----	1504	UNCH
SEP22	----	----	21.06 + 0.01	----	----	1536	UNCH
OCT22	----	----	20.86 + 0.01	----	----	1632	UNCH
NOV22	----	----	21.01 - 0.04	----	----	1540	UNCH
DEC22	----	----	23.44 - 0.02	----	----	1632	UNCH
TOTAL V3 FUT						217892	
Z9 FUT	PJM AD HUB 5MW REAL TIME PK						
DEC18	----	----	49.13 + 0.88	----	----	680	UNCH
JAN19	----	----	61.13 + 1.91	----	----	814	UNCH
FEB19	----	----	54.62 + 0.84	----	----	740	UNCH
MAR19	----	----	45.54 - 1.09	----	----	357	UNCH
APR19	----	----	37.21 + 2.09	----	----	374	UNCH
MAY19	----	----	37.13 + 0.08	----	----	308	UNCH
JUN19	----	----	35.31 + 0.06	----	----	380	UNCH
JUL19	----	----	39.28 + 0.28	----	----	418	UNCH
AUG19	----	----	39.07 + 0.32	----	----	418	UNCH
SEP19	----	----	36.08 + 0.20	----	----	380	UNCH
OCT19	----	----	34.46 + 0.11	----	----	437	UNCH
NOV19	----	----	33.46 + 0.23	----	----	380	UNCH
DEC19	----	----	35.95 - 0.11	----	----	399	UNCH
JAN20	----	----	46.38 - 0.12	----	----	924	UNCH
FEB20	----	----	43.62 - 0.12	----	----	840	UNCH
MAR20	----	----	38.60 + 0.18	----	----	924	UNCH
APR20	----	----	34.94 + 0.17	----	----	924	UNCH
MAY20	----	----	34.24 + 0.41	----	----	840	UNCH
JUN20	----	----	33.68 + 0.34	----	----	924	UNCH
JUL20	----	----	39.51 + 0.21	----	----	966	UNCH
AUG20	----	----	36.60 + 0.21	----	----	882	UNCH
SEP20	----	----	34.09 + 0.01	----	----	882	UNCH
OCT20	----	----	32.78 + 0.18	----	----	924	UNCH
NOV20	----	----	32.33 + 0.18	----	----	840	UNCH
DEC20	----	----	34.39 + 0.17	----	----	924	UNCH
JAN21	----	----	42.54 + 0.22	----	----	100	UNCH
FEB21	----	----	39.65 + 0.19	----	----	100	UNCH
MAR21	----	----	35.35 + 0.18	----	----	115	UNCH
APR21	----	----	32.70 + 0.14	----	----	110	UNCH
MAY21	----	----	33.00 + 0.15	----	----	100	UNCH
JUN21	----	----	32.35 + 0.14	----	----	110	UNCH
JUL21	----	----	38.50 + 0.17	----	----	105	UNCH
AUG21	----	----	35.70 + 0.18	----	----	110	UNCH
SEP21	----	----	32.10 + 0.14	----	----	105	UNCH
OCT21	----	----	30.85 + 0.17	----	----	105	UNCH
NOV21	----	----	30.70 + 0.17	----	----	105	UNCH
DEC21	----	----	32.55 + 0.14	----	----	115	UNCH
JAN22	----	----	40.86 - 0.02	----	----	84	UNCH
FEB22	----	----	38.06 UNCH	----	----	80	UNCH
MAR22	----	----	34.01 + 0.02	----	----	92	UNCH
APR22	----	----	31.56 + 0.04	----	----	84	UNCH
MAY22	----	----	30.76 + 0.04	----	----	84	UNCH
JUN22	----	----	30.96 + 0.04	----	----	88	UNCH
JUL22	----	----	37.31 + 0.05	----	----	80	UNCH
AUG22	----	----	34.66 + 0.02	----	----	92	UNCH
SEP22	----	----	31.41 + 0.04	----	----	84	UNCH
OCT22	----	----	29.51 + 0.03	----	----	84	UNCH
NOV22	----	----	29.31 + 0.02	----	----	84	UNCH
DEC22	----	----	31.21 + 0.04	----	----	84	UNCH
TOTAL Z9 FUT						19179	
PWO FUT	PJM AEP DAYTON HUB DA OP DAILY						
09NOV18	----	----	29.46 UNCH	----	----	0 - 64	
10NOV18	----	----	35.36 UNCH	----	----	192 UNCH	
11NOV18	----	----	37.49 UNCH	----	----	192 UNCH	
12NOV18	----	----	31.19 UNCH	----	----	64 UNCH	
13NOV18	----	----	30.59 UNCH	----	----	64 UNCH	
14NOV18	----	----	35.91 UNCH	----	----	64 UNCH	
15NOV18	----	----	35.59 UNCH	----	----	64 UNCH	
16NOV18	----	----	37.95 UNCH	----	----	64 UNCH	
17NOV18	----	----	36.76 + 9.07	----	----	192 UNCH	
18NOV18	----	----	27.69 UNCH	----	----	192 UNCH	
19NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
20NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
21NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
22NOV18	----	----	27.69 UNCH	----	----	192 UNCH	
23NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
24NOV18	----	----	27.69 UNCH	----	----	192 UNCH	
25NOV18	----	----	27.69 UNCH	----	----	192 UNCH	
26NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
27NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
28NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
29NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
30NOV18	----	----	27.69 UNCH	----	----	64 UNCH	
TOTAL PWO FUT						2240 - 64	
PAP FUT	PJM AEP DAYTON HUB DA PEAK DAILY						
09NOV18	----	----	42.22 UNCH	----	----	0 - 25	
12NOV18	----	----	42.82 UNCH	----	----	25 UNCH	
13NOV18	----	----	44.89 UNCH	----	----	25 UNCH	
14NOV18	----	----	49.61 UNCH	----	----	25 UNCH	
15NOV18	----	----	54.66 UNCH	----	----	25 UNCH	

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ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
PAP FUT PJM AEP DAYTON HUB DA PEAK DAILY								
16NOV18	----	----	43.43 UNCH		----	----	25	UNCH
19NOV18	----	----	43.43 + 0.93		----	----	25	UNCH
20NOV18	----	----	39.00 - 3.50		----	----	25	UNCH
21NOV18	----	----	39.00 - 3.50		----	----	25	UNCH
23NOV18	----	----	39.00 - 3.50		----	----	25	UNCH
26NOV18	----	----	43.00 - 1.00		----	----	25	UNCH
27NOV18	----	----	43.00 - 1.00		----	----	25	UNCH
28NOV18	----	----	43.00 - 1.00		----	----	25	UNCH
29NOV18	----	----	43.00 - 1.00		----	----	25	UNCH
30NOV18	----	----	43.00 - 1.00		----	----	25	UNCH
TOTAL PAP FUT							350	- 25
AOR FUT PJM AEP DAYTON HUB RT OP DAILY								
08NOV18	----	----	27.99 UNCH		----	----	0	- 200
09NOV18	----	----	24.10 UNCH		----	----	200	UNCH
10NOV18	----	----	34.80 UNCH		----	----	600	UNCH
11NOV18	----	----	31.41 UNCH		----	----	600	UNCH
12NOV18	----	----	34.24 UNCH		----	----	200	UNCH
13NOV18	----	----	28.31 UNCH		----	----	200	UNCH
14NOV18	----	----	34.44 UNCH		----	----	200	UNCH
15NOV18	----	----	38.71 + 10.71		----	----	200	UNCH
16NOV18	----	----	28.00 UNCH		----	----	200	UNCH
17NOV18	----	----	28.00 UNCH		----	----	600	UNCH
18NOV18	----	----	28.00 UNCH		----	----	600	UNCH
19NOV18	----	----	28.00 UNCH		----	----	200	UNCH
20NOV18	----	----	28.00 UNCH		----	----	200	UNCH
21NOV18	----	----	28.00 UNCH		----	----	200	UNCH
22NOV18	----	----	28.00 UNCH		----	----	600	UNCH
23NOV18	----	----	28.00 UNCH		----	----	200	UNCH
24NOV18	----	----	28.00 UNCH		----	----	600	UNCH
25NOV18	----	----	28.00 UNCH		----	----	600	UNCH
26NOV18	----	----	28.00 UNCH		----	----	200	UNCH
27NOV18	----	----	28.00 UNCH		----	----	200	UNCH
28NOV18	----	----	28.00 UNCH		----	----	200	UNCH
29NOV18	----	----	28.00 UNCH		----	----	200	UNCH
30NOV18	----	----	28.00 UNCH		----	----	200	UNCH
TOTAL AOR FUT							7200	- 200
R3 FUT PJM BGE DA OFF-PEAK								
NOV18	----	----	33.21 + 0.48		----	----	770	UNCH
DEC18	----	----	48.56 + 1.68		----	----	848	UNCH
TOTAL R3 FUT							1618	
E3 FUT PJM BGE DA PEAK								
NOV18	----	----	44.12 UNCH		----	----	42	UNCH
DEC18	----	----	60.74 + 2.88		----	----	40	UNCH
TOTAL E3 FUT							82	
D9 FUT PJM COMED 5MW D AH O PK								
NOV18	----	----	25.77 + 0.50		----	----	1925	UNCH
DEC18	----	----	32.53 + 0.52		----	----	2120	UNCH
TOTAL D9 FUT							4045	
D8 FUT PJM COMED 5MW D AH PK								
NOV18	----	----	36.62 UNCH		----	----	105	UNCH
DEC18	----	----	44.74 + 3.15		----	----	100	UNCH
TOTAL D8 FUT							205	
JD FUT PJM DAILY								
14NOV18	----	----	51.50 UNCH		----	----	0	- 311
15NOV18	----	----	56.17 - 4.33		----	----	311	UNCH
16NOV18	----	----	42.00 UNCH		----	----	311	UNCH
19NOV18	----	----	44.00 + 1.75		----	----	311	UNCH
20NOV18	----	----	41.50 - 0.75		----	----	311	UNCH
21NOV18	----	----	41.50 - 0.75		----	----	311	UNCH
23NOV18	----	----	41.50 - 0.75		----	----	311	UNCH
26NOV18	----	----	45.50 - 0.25		----	----	311	UNCH
27NOV18	----	----	45.50 - 0.25		----	----	311	UNCH
28NOV18	----	----	45.50 - 0.25		----	----	311	UNCH
29NOV18	----	----	45.50 - 0.25		----	----	311	UNCH
30NOV18	----	----	45.50 - 0.25		----	----	311	UNCH
TOTAL JD FUT							3421	- 311
R7 FUT PJM DAYTON DA OFF-PEAK								
DEC18	----	----	37.86 + 0.36		----	----	3392	UNCH
JAN19	----	----	45.91 + 0.53		----	----	1960	UNCH
FEB19	----	----	42.34 + 0.47		----	----	1760	UNCH
MAR19	----	----	35.97 - 0.25		----	----	2035	UNCH
APR19	----	----	26.53 + 1.50		----	----	1840	UNCH
MAY19	----	----	25.18 + 0.05		----	----	1960	UNCH
JUN19	----	----	25.25 + 0.05		----	----	2000	UNCH
JUL19	----	----	27.27 + 0.10		----	----	1960	UNCH
AUG19	----	----	25.03 + 0.05		----	----	1960	UNCH
SEP19	----	----	25.20 + 0.10		----	----	2000	UNCH
OCT19	----	----	23.86 + 0.04		----	----	1880	UNCH
NOV19	----	----	24.93 + 0.04		----	----	2005	UNCH
DEC19	----	----	28.62 + 0.08		----	----	2040	UNCH
JAN20	----	----	40.04 - 0.53		----	----	3920	UNCH
FEB20	----	----	36.85 - 0.50		----	----	3760	UNCH
MAR20	----	----	28.09 + 0.15		----	----	3910	UNCH
APR20	----	----	24.89 + 0.17		----	----	3680	UNCH
MAY20	----	----	23.02 + 0.15		----	----	4240	UNCH
JUN20	----	----	23.12 + 0.15		----	----	3680	UNCH
JUL20	----	----	25.97 + 0.13		----	----	3760	UNCH
AUG20	----	----	23.86 + 0.16		----	----	4080	UNCH
SEP20	----	----	23.02 + 0.15		----	----	3840	UNCH
OCT20	----	----	22.78 + 0.15		----	----	3920	UNCH
NOV20	----	----	22.97 + 0.15		----	----	4010	UNCH
DEC20	----	----	25.33 + 0.12		----	----	3920	UNCH
TOTAL R7 FUT							73512	
D7 FUT PJM DAYTON DA PEAK								
DEC18	----	----	49.23 + 0.88		----	----	500	UNCH
JAN19	----	----	61.23 + 1.91		----	----	220	UNCH
FEB19	----	----	54.72 + 0.84		----	----	200	UNCH
MAR19	----	----	45.64 - 1.09		----	----	210	UNCH
APR19	----	----	37.31 + 2.09		----	----	220	UNCH

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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
D7 FUT PJM DAYTON DA PEAK							
MAY19	----	----	37.23 + 0.08	----	----	220	UNCH
JUN19	----	----	35.41 + 0.06	----	----	200	UNCH
JUL19	----	----	39.38 + 0.28	----	----	220	UNCH
AUG19	----	----	39.17 + 0.32	----	----	220	UNCH
SEP19	----	----	36.18 + 0.20	----	----	200	UNCH
OCT19	----	----	34.56 + 0.11	----	----	230	UNCH
NOV19	----	----	33.56 + 0.23	----	----	200	UNCH
DEC19	----	----	36.05 - 0.11	----	----	210	UNCH
JAN20	----	----	46.48 - 0.12	----	----	220	UNCH
FEB20	----	----	43.72 - 0.12	----	----	200	UNCH
MAR20	----	----	38.70 + 0.18	----	----	220	UNCH
APR20	----	----	35.04 + 0.17	----	----	220	UNCH
MAY20	----	----	34.34 + 0.41	----	----	200	UNCH
JUN20	----	----	33.78 + 0.34	----	----	220	UNCH
JUL20	----	----	39.61 + 0.21	----	----	230	UNCH
AUG20	----	----	36.70 + 0.21	----	----	210	UNCH
SEP20	----	----	34.19 + 0.01	----	----	210	UNCH
OCT20	----	----	32.88 + 0.18	----	----	220	UNCH
NOV20	----	----	32.43 + 0.18	----	----	200	UNCH
DEC20	----	----	34.49 + 0.17	----	----	220	UNCH
TOTAL D7 FUT						5620	
46 FUT PJM METED ZONE OFFPK CAL LMP							
NOV18	----	----	27.27 + 0.48	----	----	770	UNCH
DEC18	----	----	44.71 + 1.30	----	----	848	UNCH
JAN19	----	----	62.57 + 1.33	----	----	784	UNCH
FEB19	----	----	60.25 + 1.37	----	----	704	UNCH
MAR19	----	----	37.88 + 0.43	----	----	814	UNCH
APR19	----	----	24.69 + 0.06	----	----	736	UNCH
MAY19	----	----	21.43 + 0.06	----	----	784	UNCH
JUN19	----	----	21.78 + 0.04	----	----	800	UNCH
JUL19	----	----	25.65 + 0.11	----	----	784	UNCH
AUG19	----	----	23.54 + 0.08	----	----	784	UNCH
SEP19	----	----	20.58 + 0.02	----	----	800	UNCH
OCT19	----	----	20.17 + 0.13	----	----	752	UNCH
NOV19	----	----	21.62 + 0.16	----	----	802	UNCH
DEC19	----	----	30.54 + 0.37	----	----	816	UNCH
JAN20	----	----	51.67 + 1.08	----	----	784	UNCH
FEB20	----	----	48.33 + 1.00	----	----	752	UNCH
MAR20	----	----	28.70 + 0.01	----	----	782	UNCH
APR20	----	----	21.75 + 0.08	----	----	736	UNCH
MAY20	----	----	19.23 - 0.15	----	----	848	UNCH
JUN20	----	----	19.13 - 0.14	----	----	736	UNCH
JUL20	----	----	24.32 + 0.02	----	----	752	UNCH
AUG20	----	----	22.63 + 0.07	----	----	816	UNCH
SEP20	----	----	18.98 - 0.14	----	----	768	UNCH
OCT20	----	----	19.33 - 0.01	----	----	784	UNCH
NOV20	----	----	20.18 UNCH	----	----	802	UNCH
DEC20	----	----	27.03 - 0.03	----	----	784	UNCH
TOTAL 46 FUT						20322	
47 FUT PJM METED ZONE PEAK CAL LMP							
NOV18	----	----	37.96 UNCH	----	----	42	UNCH
DEC18	----	----	55.65 + 2.16	----	----	40	UNCH
JAN19	----	----	79.19 + 1.67	----	----	44	UNCH
FEB19	----	----	73.33 + 1.45	----	----	40	UNCH
MAR19	----	----	48.40 + 0.74	----	----	42	UNCH
APR19	----	----	33.54 + 0.14	----	----	44	UNCH
MAY19	----	----	32.78 + 0.10	----	----	44	UNCH
JUN19	----	----	32.01 + 0.12	----	----	40	UNCH
JUL19	----	----	38.97 + 0.27	----	----	44	UNCH
AUG19	----	----	36.41 + 0.22	----	----	44	UNCH
SEP19	----	----	31.00 + 0.08	----	----	40	UNCH
OCT19	----	----	29.84 UNCH	----	----	46	UNCH
NOV19	----	----	29.99 UNCH	----	----	40	UNCH
DEC19	----	----	38.18 + 0.14	----	----	42	UNCH
JAN20	----	----	60.71 + 0.63	----	----	44	UNCH
FEB20	----	----	57.02 + 0.60	----	----	40	UNCH
MAR20	----	----	37.44 UNCH	----	----	44	UNCH
APR20	----	----	31.54 - 0.04	----	----	44	UNCH
MAY20	----	----	30.71 + 0.22	----	----	40	UNCH
JUN20	----	----	30.12 + 0.18	----	----	44	UNCH
JUL20	----	----	37.71 + 0.02	----	----	46	UNCH
AUG20	----	----	34.79 - 0.02	----	----	42	UNCH
SEP20	----	----	29.91 - 0.13	----	----	42	UNCH
OCT20	----	----	28.22 - 0.01	----	----	44	UNCH
NOV20	----	----	28.27 UNCH	----	----	40	UNCH
DEC20	----	----	34.70 + 0.04	----	----	44	UNCH
TOTAL 47 FUT						1106	
JM FUT PJM MONTHLY							
NOV18	----	----	44.00 + 0.02	----	----	70	UNCH
DEC18	----	----	55.08 + 2.08	----	----	70	UNCH
JAN19	----	----	73.30 + 1.17	----	----	40	UNCH
FEB19	----	----	67.55 + 0.97	----	----	40	UNCH
MAR19	----	----	50.13 + 0.88	----	----	40	UNCH
APR19	----	----	37.77 + 0.24	----	----	40	UNCH
MAY19	----	----	37.00 + 0.15	----	----	40	UNCH
JUN19	----	----	34.87 + 0.16	----	----	40	UNCH
JUL19	----	----	40.33 + 0.30	----	----	40	UNCH
AUG19	----	----	37.32 + 0.24	----	----	40	UNCH
SEP19	----	----	35.82 + 0.16	----	----	40	UNCH
OCT19	----	----	34.50 + 0.07	----	----	40	UNCH
NOV19	----	----	34.55 + 0.07	----	----	40	UNCH
DEC19	----	----	38.58 + 0.15	----	----	40	UNCH
TOTAL JM FUT						620	
B6 FUT PJM NI HUB 5MW REAL TIME O PK							
DEC18	----	----	31.49 - 0.14	----	----	54696	UNCH
JAN19	----	----	34.57 - 0.13	----	----	7448	UNCH
FEB19	----	----	31.43 - 0.12	----	----	6888	UNCH
MAR19	----	----	25.25 + 0.12	----	----	7733	UNCH
APR19	----	----	23.75 + 0.13	----	----	6992	UNCH
MAY19	----	----	19.28 + 0.05	----	----	7448	UNCH
JUN19	----	----	20.05 + 0.05	----	----	7600	UNCH
JUL19	----	----	22.60 + 0.07	----	----	7448	UNCH
AUG19	----	----	20.85 + 0.08	----	----	7448	UNCH

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PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
B6 FUT PJM NI HUB 5MW REAL TIME O PK							
SEP19	----	----	19.85 + 0.10	----	----	7600	UNCH
OCT19	----	----	19.43 + 0.04	----	----	7144	UNCH
NOV19	----	----	19.83 + 0.04	----	----	7619	UNCH
DEC19	----	----	21.19 + 0.07	----	----	7752	UNCH
TOTAL B6 FUT						143616	
B3 FUT PJM NI HUB 5MW REAL TIME PK							
DEC18	----	----	43.08 + 0.70	----	----	1780	UNCH
JAN19	----	----	50.85 + 1.38	----	----	748	UNCH
FEB19	----	----	45.40 + 0.37	----	----	680	UNCH
MAR19	----	----	38.95 - 1.19	----	----	714	UNCH
APR19	----	----	31.60 + 1.99	----	----	748	UNCH
MAY19	----	----	31.43 + 0.10	----	----	748	UNCH
JUN19	----	----	30.34 + 0.04	----	----	980	UNCH
JUL19	----	----	34.95 + 0.28	----	----	1078	UNCH
AUG19	----	----	34.80 + 0.32	----	----	1078	UNCH
SEP19	----	----	30.48 + 0.20	----	----	980	UNCH
OCT19	----	----	28.65 + 0.09	----	----	782	UNCH
NOV19	----	----	28.35 + 0.23	----	----	680	UNCH
DEC19	----	----	30.37 - 0.11	----	----	714	UNCH
TOTAL B3 FUT						11710	
L3 FUT PJM NILL DA OFF-PEAK							
DEC18	----	----	31.54 - 0.14	----	----	19504	UNCH
JAN19	----	----	34.62 - 0.13	----	----	13328	UNCH
FEB19	----	----	31.48 - 0.12	----	----	11968	UNCH
MAR19	----	----	25.30 + 0.12	----	----	13838	UNCH
APR19	----	----	23.80 + 0.13	----	----	12512	UNCH
MAY19	----	----	19.33 + 0.05	----	----	13328	UNCH
JUN19	----	----	20.10 + 0.05	----	----	13600	UNCH
JUL19	----	----	22.65 + 0.07	----	----	13328	UNCH
AUG19	----	----	20.90 + 0.08	----	----	13328	UNCH
SEP19	----	----	19.90 + 0.10	----	----	13600	UNCH
OCT19	----	----	19.48 + 0.04	----	----	12784	UNCH
NOV19	----	----	19.88 + 0.04	----	----	13634	UNCH
DEC19	----	----	21.24 + 0.07	----	----	13872	UNCH
TOTAL L3 FUT						178624	
N3 FUT PJM NILL DA PEAK							
DEC18	----	----	43.08 + 0.70	----	----	1100	UNCH
JAN19	----	----	50.85 + 1.38	----	----	858	UNCH
FEB19	----	----	45.40 + 0.37	----	----	780	UNCH
MAR19	----	----	38.95 - 1.19	----	----	819	UNCH
APR19	----	----	31.60 + 1.99	----	----	858	UNCH
MAY19	----	----	31.43 + 0.10	----	----	858	UNCH
JUN19	----	----	30.34 + 0.04	----	----	780	UNCH
JUL19	----	----	34.95 + 0.28	----	----	858	UNCH
AUG19	----	----	34.80 + 0.32	----	----	858	UNCH
SEP19	----	----	30.48 + 0.20	----	----	780	UNCH
OCT19	----	----	28.65 + 0.09	----	----	897	UNCH
NOV19	----	----	28.35 + 0.23	----	----	780	UNCH
DEC19	----	----	30.37 - 0.11	----	----	819	UNCH
TOTAL N3 FUT						11045	
PNO FUT PJM NORTERN ILL HUB DA OP DAILY							
09NOV18	----	----	27.88 UNCH	----	----	0	368
10NOV18	----	----	33.44 UNCH	----	----	1104	UNCH
11NOV18	----	----	35.05 UNCH	----	----	1104	UNCH
12NOV18	----	----	28.50 UNCH	----	----	368	UNCH
13NOV18	----	----	28.07 UNCH	----	----	368	UNCH
14NOV18	----	----	33.23 UNCH	----	----	368	UNCH
15NOV18	----	----	29.23 UNCH	----	----	368	UNCH
16NOV18	----	----	25.04 UNCH	----	----	368	UNCH
17NOV18	----	----	30.98 + 8.33	----	----	1104	UNCH
18NOV18	----	----	22.65 UNCH	----	----	1104	UNCH
19NOV18	----	----	22.65 UNCH	----	----	368	UNCH
20NOV18	----	----	22.65 UNCH	----	----	368	UNCH
21NOV18	----	----	22.65 UNCH	----	----	368	UNCH
22NOV18	----	----	22.65 UNCH	----	----	1104	UNCH
23NOV18	----	----	22.65 UNCH	----	----	368	UNCH
24NOV18	----	----	22.65 UNCH	----	----	1104	UNCH
25NOV18	----	----	22.65 UNCH	----	----	1104	UNCH
26NOV18	----	----	22.65 UNCH	----	----	368	UNCH
27NOV18	----	----	22.65 UNCH	----	----	368	UNCH
28NOV18	----	----	22.65 UNCH	----	----	368	UNCH
29NOV18	----	----	22.65 UNCH	----	----	368	UNCH
30NOV18	----	----	22.65 UNCH	----	----	368	UNCH
TOTAL PNO FUT						12880	368
PNP FUT PJM NORTERN ILL HUB DA PEAK DAILY							
09NOV18	----	----	38.03 UNCH	----	----	0	55
12NOV18	----	----	40.34 UNCH	----	----	55	UNCH
13NOV18	----	----	41.65 UNCH	----	----	55	UNCH
14NOV18	----	----	46.48 UNCH	----	----	55	UNCH
15NOV18	----	----	50.01 UNCH	----	----	55	UNCH
16NOV18	----	----	40.69 UNCH	----	----	55	UNCH
19NOV18	----	----	40.69 + 3.69	----	----	55	UNCH
20NOV18	----	----	37.50 + 0.50	----	----	55	UNCH
21NOV18	----	----	37.50 + 0.50	----	----	55	UNCH
23NOV18	----	----	37.50 + 0.50	----	----	55	UNCH
26NOV18	----	----	39.00 - 1.00	----	----	55	UNCH
27NOV18	----	----	39.00 - 1.00	----	----	55	UNCH
28NOV18	----	----	39.00 - 1.00	----	----	55	UNCH
29NOV18	----	----	39.00 - 1.00	----	----	55	UNCH
30NOV18	----	----	39.00 - 1.00	----	----	55	UNCH
TOTAL PNP FUT						770	55
NOC FUT PJM NORTERN ILL HUB RT OP DAILY							
08NOV18	----	----	27.11 UNCH	----	----	0	1032
09NOV18	----	----	23.31 UNCH	----	----	1032	UNCH
10NOV18	----	----	33.47 UNCH	----	----	3096	UNCH
11NOV18	----	----	29.23 UNCH	----	----	3096	UNCH
12NOV18	----	----	27.07 UNCH	----	----	1032	UNCH
13NOV18	----	----	27.34 UNCH	----	----	1032	UNCH
14NOV18	----	----	28.76 UNCH	----	----	1032	UNCH
15NOV18	----	----	17.60 - 5.31	----	----	1032	UNCH
16NOV18	----	----	22.91 UNCH	----	----	1032	UNCH

PRELIMINARY



PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
NOC FUT PJM NORTERN ILL HUB RT OP DAILY							
17NOV18	----	----	22.91 UNCH	----	----	3096	UNCH
18NOV18	----	----	22.91 UNCH	----	----	3096	UNCH
19NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
20NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
21NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
22NOV18	----	----	22.91 UNCH	----	----	3096	UNCH
23NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
24NOV18	----	----	22.91 UNCH	----	----	3096	UNCH
25NOV18	----	----	22.91 UNCH	----	----	3096	UNCH
26NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
27NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
28NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
29NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
30NOV18	----	----	22.91 UNCH	----	----	1032	UNCH
TOTAL NOC FUT						37152	- 1032
JP FUT PJM OFF-PEAK LMP FUTURE							
NOV18	----	----	28.00 + 0.19	----	----	40	UNCH
DEC18	----	----	43.68 + 1.19	----	----	40	UNCH
TOTAL JP FUT						80	
W6 FUT PJM PSEG DA OFF-PEAK							
NOV18	----	----	27.51 + 0.44	----	----	1925	UNCH
DEC18	----	----	47.02 + 1.53	----	----	2120	UNCH
JAN19	----	----	68.99 + 1.69	----	----	3920	UNCH
FEB19	----	----	66.37 + 1.72	----	----	3520	UNCH
MAR19	----	----	38.03 + 0.54	----	----	4070	UNCH
APR19	----	----	24.04 + 0.06	----	----	3680	UNCH
MAY19	----	----	20.42 + 0.04	----	----	3920	UNCH
JUN19	----	----	21.18 + 0.04	----	----	2000	UNCH
JUL19	----	----	25.86 + 0.12	----	----	1960	UNCH
AUG19	----	----	23.84 + 0.08	----	----	1960	UNCH
SEP19	----	----	20.68 + 0.02	----	----	2000	UNCH
OCT19	----	----	20.47 + 0.14	----	----	1880	UNCH
NOV19	----	----	21.72 + 0.16	----	----	2005	UNCH
DEC19	----	----	31.00 + 0.38	----	----	2040	UNCH
TOTAL W6 FUT						37000	
L6 FUT PJM PSEG DA PEAK							
JAN19	----	----	84.02 + 2.09	----	----	110	UNCH
FEB19	----	----	78.15 + 1.85	----	----	100	UNCH
MAR19	----	----	49.06 + 0.89	----	----	105	UNCH
APR19	----	----	33.95 + 0.16	----	----	110	UNCH
MAY19	----	----	32.83 + 0.10	----	----	110	UNCH
JUN19	----	----	30.65 + 0.10	----	----	100	UNCH
JUL19	----	----	39.57 + 0.28	----	----	110	UNCH
AUG19	----	----	36.46 + 0.22	----	----	110	UNCH
SEP19	----	----	31.25 + 0.09	----	----	100	UNCH
OCT19	----	----	30.34 + 0.01	----	----	115	UNCH
NOV19	----	----	30.84 + 0.01	----	----	100	UNCH
DEC19	----	----	38.88 + 0.15	----	----	105	UNCH
TOTAL L6 FUT						1275	
PWO FUT PJM WESTERN HUB DA OP DAILY FUT							
09NOV18	----	----	29.80 UNCH	----	----	0	- 376
10NOV18	----	----	35.84 UNCH	----	----	1128	UNCH
11NOV18	----	----	38.90 UNCH	----	----	1128	UNCH
12NOV18	----	----	32.13 UNCH	----	----	376	UNCH
13NOV18	----	----	30.34 UNCH	----	----	376	UNCH
14NOV18	----	----	36.00 UNCH	----	----	376	UNCH
15NOV18	----	----	35.20 UNCH	----	----	376	UNCH
16NOV18	----	----	37.58 UNCH	----	----	376	UNCH
17NOV18	----	----	36.26 + 8.41	----	----	1128	UNCH
18NOV18	----	----	27.85 UNCH	----	----	1128	UNCH
19NOV18	----	----	27.85 UNCH	----	----	376	UNCH
20NOV18	----	----	27.85 UNCH	----	----	376	UNCH
21NOV18	----	----	27.85 UNCH	----	----	376	UNCH
22NOV18	----	----	27.85 UNCH	----	----	1128	UNCH
23NOV18	----	----	27.85 UNCH	----	----	376	UNCH
24NOV18	----	----	27.85 UNCH	----	----	1128	UNCH
25NOV18	----	----	27.85 UNCH	----	----	1128	UNCH
26NOV18	----	----	27.85 UNCH	----	----	376	UNCH
27NOV18	----	----	27.85 UNCH	----	----	376	UNCH
28NOV18	----	----	27.85 UNCH	----	----	376	UNCH
29NOV18	----	----	27.85 UNCH	----	----	376	UNCH
30NOV18	----	----	27.85 UNCH	----	----	376	UNCH
TOTAL PWO FUT						13160	- 376
PWP FUT PJM WESTERN HUB DA PEAK DAILY							
09NOV18	----	----	41.72 UNCH	----	----	0	- 47
12NOV18	----	----	44.09 UNCH	----	----	47	UNCH
13NOV18	----	----	41.21 UNCH	----	----	47	UNCH
14NOV18	----	----	48.43 UNCH	----	----	47	UNCH
15NOV18	----	----	55.79 UNCH	----	----	47	UNCH
16NOV18	----	----	44.32 UNCH	----	----	47	UNCH
19NOV18	----	----	44.32 + 2.07	----	----	47	UNCH
20NOV18	----	----	41.50 - 0.75	----	----	47	UNCH
21NOV18	----	----	41.50 - 0.75	----	----	47	UNCH
23NOV18	----	----	41.50 - 0.75	----	----	47	UNCH
26NOV18	----	----	45.50 - 0.25	----	----	47	UNCH
27NOV18	----	----	45.50 - 0.25	----	----	47	UNCH
28NOV18	----	----	45.50 - 0.25	----	----	47	UNCH
29NOV18	----	----	45.50 - 0.25	----	----	47	UNCH
30NOV18	----	----	45.50 - 0.25	----	----	47	UNCH
TOTAL PWP FUT						658	- 47
WOR FUT PJM WESTERN HUB RT OP DAILY							
08NOV18	----	----	27.58 UNCH	----	----	0	- 1360
09NOV18	----	----	24.21 UNCH	----	----	1360	UNCH
10NOV18	----	----	34.78 UNCH	----	----	4080	UNCH
11NOV18	----	----	32.09 UNCH	----	----	4080	UNCH
12NOV18	----	----	31.11 UNCH	----	----	1360	UNCH
13NOV18	----	----	28.53 UNCH	----	----	1360	UNCH
14NOV18	----	----	33.86 UNCH	----	----	1360	UNCH
15NOV18	----	----	36.93 + 8.92	----	----	1360	UNCH
16NOV18	----	----	28.01 UNCH	----	----	1360	UNCH
17NOV18	----	----	28.01 UNCH	----	----	4080	UNCH

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PRELIMINARY

PG61 BULLETIN #223@

ENERGY FUTURES PRODUCTS

Fri, Nov 16, 2018 PG61

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE		GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
WOR FUT PJM WESTERN HUB RT OP DAILY								
18NOV18	----	----	28.01	UNCH	----	----	4080	UNCH
19NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
20NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
21NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
22NOV18	----	----	28.01	UNCH	----	----	4080	UNCH
23NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
24NOV18	----	----	28.01	UNCH	----	----	4080	UNCH
25NOV18	----	----	28.01	UNCH	----	----	4080	UNCH
26NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
27NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
28NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
29NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
30NOV18	----	----	28.01	UNCH	----	----	1360	UNCH
TOTAL WOR FUT							48960	- 1360
E4 FUT PJM WESTH DA OFF-PEAK								
DEC18	----	----	43.73	+ 1.19	----	----	19928	UNCH
JAN19	----	----	57.53	+ 1.05	----	----	12544	UNCH
FEB19	----	----	55.10	+ 1.07	----	----	11264	UNCH
MAR19	----	----	39.55	+ 0.50	----	----	13024	UNCH
APR19	----	----	28.05	+ 0.07	----	----	11776	UNCH
MAY19	----	----	24.94	+ 0.09	----	----	12544	UNCH
JUN19	----	----	24.99	+ 0.06	----	----	12800	UNCH
JUL19	----	----	27.01	+ 0.13	----	----	12544	UNCH
AUG19	----	----	24.89	+ 0.09	----	----	12544	UNCH
SEP19	----	----	24.74	+ 0.06	----	----	12800	UNCH
OCT19	----	----	24.52	+ 0.28	----	----	12032	UNCH
NOV19	----	----	25.41	+ 0.28	----	----	12832	UNCH
DEC19	----	----	31.15	+ 0.38	----	----	13056	UNCH
JAN20	----	----	47.59	+ 0.88	----	----	8624	UNCH
FEB20	----	----	44.51	+ 0.82	----	----	8272	UNCH
MAR20	----	----	30.33	- 0.33	----	----	8602	UNCH
APR20	----	----	25.22	- 0.24	----	----	8096	UNCH
MAY20	----	----	22.94	- 0.23	----	----	9328	UNCH
JUN20	----	----	22.84	- 0.23	----	----	736	UNCH
JUL20	----	----	25.72	+ 0.03	----	----	752	UNCH
AUG20	----	----	23.78	+ 0.07	----	----	816	UNCH
SEP20	----	----	22.74	- 0.23	----	----	768	UNCH
OCT20	----	----	23.33	+ 0.01	----	----	784	UNCH
NOV20	----	----	23.43	+ 0.01	----	----	802	UNCH
DEC20	----	----	27.33	- 0.03	----	----	784	UNCH
TOTAL E4 FUT							218052	
N9 FUT PJM WESTH RT OFF-PEAK								
DEC18	----	----	43.68	+ 1.19	----	----	74624	UNCH
JAN19	----	----	57.48	+ 1.05	----	----	70168	UNCH
FEB19	----	----	55.05	+ 1.07	----	----	63008	UNCH
MAR19	----	----	39.50	+ 0.50	----	----	48433	UNCH
APR19	----	----	28.00	+ 0.07	----	----	43792	UNCH
MAY19	----	----	24.89	+ 0.09	----	----	46648	UNCH
JUN19	----	----	24.94	+ 0.06	----	----	29600	UNCH
JUL19	----	----	26.96	+ 0.13	----	----	55272	UNCH
AUG19	----	----	24.84	+ 0.09	----	----	55272	UNCH
SEP19	----	----	24.69	+ 0.06	----	----	25600	UNCH
OCT19	----	----	24.47	+ 0.28	----	----	24064	UNCH
NOV19	----	----	25.36	+ 0.28	----	----	25664	UNCH
DEC19	----	----	31.10	+ 0.38	----	----	26112	UNCH
JAN20	----	----	47.54	+ 0.88	----	----	14896	UNCH
FEB20	----	----	44.46	+ 0.82	----	----	14288	UNCH
MAR20	----	----	30.28	- 0.33	----	----	14858	UNCH
APR20	----	----	25.17	- 0.24	----	----	13984	UNCH
MAY20	----	----	22.89	- 0.23	----	----	16112	UNCH
JUN20	----	----	22.79	- 0.23	----	----	9200	UNCH
JUL20	----	----	25.67	+ 0.03	----	----	9400	UNCH
AUG20	----	----	23.73	+ 0.07	----	----	10200	UNCH
SEP20	----	----	22.69	- 0.23	----	----	9600	UNCH
OCT20	----	----	23.28	+ 0.01	----	----	9800	UNCH
NOV20	----	----	23.38	+ 0.01	----	----	10025	UNCH
DEC20	----	----	27.28	- 0.03	----	----	9800	UNCH
JAN21	----	----	43.17	+ 1.08	----	----	8480	UNCH
FEB21	----	----	40.07	+ 1.00	----	----	7040	UNCH
MAR21	----	----	29.21	- 0.16	----	----	7500	UNCH
APR21	----	----	24.31	- 0.15	----	----	7360	UNCH
MAY21	----	----	21.61	- 0.13	----	----	8480	UNCH
JUN21	----	----	21.91	- 0.13	----	----	7360	UNCH
JUL21	----	----	24.61	- 0.15	----	----	8160	UNCH
AUG21	----	----	22.61	- 0.12	----	----	7840	UNCH
SEP21	----	----	21.76	- 0.13	----	----	7680	UNCH
OCT21	----	----	21.86	- 0.13	----	----	8160	UNCH
NOV21	----	----	22.21	- 0.12	----	----	7700	UNCH
DEC21	----	----	25.76	- 0.14	----	----	7520	UNCH
JAN22	----	----	40.42	+ 0.02	----	----	20400	UNCH
FEB22	----	----	37.54	+ 0.04	----	----	17600	UNCH
MAR22	----	----	28.26	+ 0.02	----	----	18750	UNCH
APR22	----	----	23.44	+ 0.02	----	----	19200	UNCH
MAY22	----	----	20.96	+ 0.05	----	----	20400	UNCH
JUN22	----	----	21.01	+ 0.05	----	----	18400	UNCH
JUL22	----	----	23.49	+ 0.02	----	----	21200	UNCH
AUG22	----	----	21.60	UNCH	----	----	18800	UNCH
SEP22	----	----	20.86	+ 0.05	----	----	19200	UNCH
OCT22	----	----	20.96	+ 0.05	----	----	20400	UNCH
NOV22	----	----	21.25	- 0.01	----	----	19250	UNCH
DEC22	----	----	24.63	+ 0.03	----	----	20400	UNCH
TOTAL N9 FUT							1057700	
L1 FUT PJM WESTH RT PEAK								
DEC18	----	----	55.08	+ 2.08	----	----	5820	UNCH
JAN19	----	----	73.30	+ 1.17	----	----	3740	UNCH
FEB19	----	----	67.55	+ 0.97	----	----	3400	UNCH
MAR19	----	----	50.13	+ 0.88	----	----	3570	UNCH
APR19	----	----	37.77	+ 0.24	----	----	3740	UNCH
MAY19	----	----	37.00	+ 0.15	----	----	3740	UNCH
JUN19	----	----	34.87	+ 0.16	----	----	2980	UNCH
JUL19	----	----	40.33	+ 0.30	----	----	3190	UNCH
AUG19	----	----	37.32	+ 0.24	----	----	3190	UNCH
SEP19	----	----	35.82	+ 0.16	----	----	3180	UNCH
OCT19	----	----	34.50	+ 0.07	----	----	3404	UNCH

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ENERGY FUTURES PRODUCTS

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	LOBEX OPEN	LOBEX HIGH/LOW	SETT. PRICE & PT. CHGE		LOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
L1 FUT	PJM WESTH RT PEAK							
NOV19	----	----	34.55 + 0.07		----	----	2960	UNCH
DEC19	----	----	38.58 + 0.15		----	----	3108	UNCH
JAN20	----	----	55.62 + 0.45		----	----	902	UNCH
FEB20	----	----	52.78 + 0.45		----	----	820	UNCH
MAR20	----	----	40.24 + 0.01		----	----	902	UNCH
APR20	----	----	35.54 - 0.03		----	----	902	UNCH
MAY20	----	----	34.49 + 0.26		----	----	820	UNCH
JUN20	----	----	33.44 + 0.20		----	----	1012	UNCH
JUL20	----	----	39.31 + 0.02		----	----	2277	UNCH
AUG20	----	----	35.99 - 0.02		----	----	2079	UNCH
SEP20	----	----	33.94 - 0.14		----	----	966	UNCH
OCT20	----	----	32.93 + 0.06		----	----	1012	UNCH
NOV20	----	----	32.37 + 0.04		----	----	920	UNCH
DEC20	----	----	35.65 + 0.05		----	----	1012	UNCH
JAN21	----	----	50.77 + 0.23		----	----	140	UNCH
FEB21	----	----	47.18 + 0.20		----	----	140	UNCH
MAR21	----	----	37.34 + 0.13		----	----	161	UNCH
APR21	----	----	33.20 + 0.08		----	----	154	UNCH
MAY21	----	----	32.95 + 0.08		----	----	140	UNCH
JUN21	----	----	32.20 + 0.07		----	----	154	UNCH
JUL21	----	----	38.84 + 0.10		----	----	147	UNCH
AUG21	----	----	35.35 + 0.11		----	----	154	UNCH
SEP21	----	----	32.15 + 0.07		----	----	147	UNCH
OCT21	----	----	30.60 + 0.10		----	----	147	UNCH
NOV21	----	----	30.35 + 0.10		----	----	147	UNCH
DEC21	----	----	33.70 + 0.09		----	----	161	UNCH
TOTAL L1 FUT							61438	
J4 FUT	PJM WESTHDA PEAK							
DEC18	----	----	55.08 + 2.08		----	----	940	UNCH
JAN19	----	----	73.30 + 1.17		----	----	704	UNCH
FEB19	----	----	67.55 + 0.97		----	----	640	UNCH
MAR19	----	----	50.13 + 0.88		----	----	672	UNCH
APR19	----	----	37.77 + 0.24		----	----	704	UNCH
MAY19	----	----	37.00 + 0.15		----	----	704	UNCH
JUN19	----	----	34.87 + 0.16		----	----	640	UNCH
JUL19	----	----	40.33 + 0.30		----	----	704	UNCH
AUG19	----	----	37.32 + 0.24		----	----	704	UNCH
SEP19	----	----	35.82 + 0.16		----	----	640	UNCH
OCT19	----	----	34.50 + 0.07		----	----	736	UNCH
NOV19	----	----	34.55 + 0.07		----	----	640	UNCH
DEC19	----	----	38.58 + 0.15		----	----	672	UNCH
JAN20	----	----	55.62 + 0.45		----	----	484	UNCH
FEB20	----	----	52.78 + 0.45		----	----	440	UNCH
MAR20	----	----	40.24 + 0.01		----	----	484	UNCH
APR20	----	----	35.54 - 0.03		----	----	484	UNCH
MAY20	----	----	34.49 + 0.26		----	----	440	UNCH
JUN20	----	----	33.44 + 0.20		----	----	44	UNCH
JUL20	----	----	39.31 + 0.02		----	----	46	UNCH
AUG20	----	----	35.99 - 0.02		----	----	42	UNCH
SEP20	----	----	33.94 - 0.14		----	----	42	UNCH
OCT20	----	----	32.93 + 0.06		----	----	44	UNCH
NOV20	----	----	32.37 + 0.04		----	----	40	UNCH
DEC20	----	----	35.65 + 0.05		----	----	44	UNCH
TOTAL J4 FUT							11734	

COAL FUTURES PRODUCTS

	LOBEX OPEN	LOBEX HIGH/LOW	SETT. PRICE & PT. CHGE		LOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST	
ALW FUT	AUSTRALIAN COKING (PLATTS) LOW VOL							
NOV18	----	----	221.00 UNCH		----	----	24	UNCH
DEC18	----	----	217.50 - 4.50		----	----	24	UNCH
JAN19	----	----	219.00 - 4.00		----	----	4	UNCH
FEB19	----	----	216.00 - 3.50		----	----	4	UNCH
MAR19	----	----	213.00 - 3.00		----	----	4	UNCH
APR19	----	----	204.00 UNCH		----	----	4	UNCH
MAY19	----	----	197.00 UNCH		----	----	4	UNCH
JUN19	----	----	190.00 UNCH		----	----	4	UNCH
JUL19	----	----	191.00 UNCH		----	----	4	UNCH
AUG19	----	----	191.00 UNCH		----	----	4	UNCH
SEP19	----	----	191.00 UNCH		----	----	4	UNCH
OCT19	----	----	188.00 UNCH		----	----	4	UNCH
NOV19	----	----	188.00 UNCH		----	----	4	UNCH
DEC19	----	----	188.00 UNCH		----	----	4	UNCH
TOTAL ALW FUT							96	
ICIFUT	COAL (ICI4) INDONESIAN COAL INDEX							
NOV18	----	----	34.00 UNCH		----	----	130	UNCH
DEC18	----	----	32.00 + 0.25		----	----	90	UNCH
JAN19	----	----	33.50 - 0.10		----	----	10	UNCH
FEB19	----	----	34.50 - 0.10		----	----	10	UNCH
MAR19	----	----	34.50 - 0.10		----	----	10	UNCH
TOTAL ICIFUT							250	
MTF FUT	COAL API2 CIF ARA ARG-MCCLOSKEY							
NOV18	----	----	89.60 - 0.50		----	----	2383	UNCH
DEC18	----	----	85.10 - 2.80		----	95	2679 + 40	
JAN19	----	----	85.45 - 2.75		----	137	1848 - 33	
FEB19	----	----	85.30 - 2.65		----	82	1783 - 8	
MAR19	----	----	85.25 - 2.45		----	112	1730 + 21	
APR19	----	----	85.05 - 2.60		----	67	1469 + 12	
MAY19	----	----	84.90 - 2.75		----	67	1503 + 17	
JUN19	----	----	84.90 - 2.80		----	67	1508 + 17	
JUL19	----	----	84.95 - 2.80		----	32	1356 UNCH	
AUG19	----	----	84.95 - 2.90		----	32	1336 UNCH	
SEP19	----	----	85.00 - 2.90		----	32	1336 UNCH	
OCT19	----	----	85.00 - 2.95		----	39	1335 - 1	
NOV19	----	----	85.05 - 2.75		----	39	1335 - 1	
DEC19	----	----	84.80 - 2.85		----	39	1335 - 1	
JAN20	----	----	84.55 - 2.95		----	11	409 + 1	
FEB20	----	----	84.30 - 3.05		----	11	409 + 1	
MAR20	----	----	84.00 - 3.05		----	11	409 + 1	

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	COAL API2	CIF ARA	ARG-MCCLOSKEY	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST
MTF FUT							
APR20	----	----	----	83.70 - 3.05	----	11	409 + 1
MAY20	----	----	----	83.45 - 3.05	----	11	409 + 1
JUN20	----	----	----	83.20 - 3.05	----	11	409 + 1
JUL20	----	----	----	82.95 - 3.05	----	11	409 + 1
AUG20	----	----	----	82.75 - 3.05	----	11	409 + 1
SEP20	----	----	----	82.50 - 2.40	----	11	409 + 1
OCT20	----	----	----	82.25 - 1.75	----	11	409 + 1
NOV20	----	----	----	82.05 - 1.05	----	11	409 + 1
DEC20	----	----	----	81.95 - 1.30	----	11	409 + 1
JAN21	----	----	----	81.90 - 1.50	----	----	35 UNCH
FEB21	----	----	----	81.80 - 1.75	----	----	35 UNCH
MAR21	----	----	----	81.75 - 1.95	----	----	35 UNCH
APR21	----	----	----	81.70 - 2.15	----	----	35 UNCH
MAY21	----	----	----	81.60 - 2.40	----	----	35 UNCH
JUN21	----	----	----	81.55 - 2.60	----	----	35 UNCH
JUL21	----	----	----	81.45 - 2.60	----	----	35 UNCH
AUG21	----	----	----	81.35 - 2.65	----	----	35 UNCH
SEP21	----	----	----	81.25 - 2.65	----	----	35 UNCH
OCT21	----	----	----	81.15 - 2.70	----	----	35 UNCH
NOV21	----	----	----	81.05 - 2.70	----	----	35 UNCH
DEC21	----	----	----	80.95 - 2.70	----	----	35 UNCH
TOTAL MTF FUT						972	28264 + 75
MFF FUT	COAL API4	RCH BAY	ARGS MCCLOSKEY SW				
NOV18	----	----	----	93.60 - 0.80	----	15	694 - 5
DEC18	----	----	----	90.80 - 0.60	----	10	501 UNCH
JAN19	----	----	----	90.25 - 0.90	----	----	237 UNCH
FEB19	----	----	----	89.80 - 1.25	----	----	237 UNCH
MAR19	----	----	----	89.40 - 1.75	----	----	247 UNCH
APR19	----	----	----	89.10 - 1.85	----	5	153 + 5
MAY19	----	----	----	88.85 - 1.90	----	5	153 + 5
JUN19	----	----	----	88.70 - 2.00	----	5	153 + 5
JUL19	----	----	----	88.55 - 2.10	----	----	130 UNCH
AUG19	----	----	----	88.40 - 2.20	----	----	130 UNCH
SEP19	----	----	----	88.20 - 2.20	----	----	130 UNCH
OCT19	----	----	----	88.00 - 2.25	----	----	125 UNCH
NOV19	----	----	----	87.80 - 2.30	----	----	125 UNCH
DEC19	----	----	----	87.55 - 2.35	----	----	125 UNCH
TOTAL MFF FUT						40	3140 + 10
ACM FUT	COAL API5	FOB NEWCASTLE	ARG/MC FUT				
NOV18	----	----	----	65.25 UNCH	----	----	10 UNCH
DEC18	----	----	----	66.00 UNCH	----	----	10 UNCH
JAN19	----	----	----	66.50 UNCH	----	----	15 UNCH
FEB19	----	----	----	66.50 UNCH	----	----	15 UNCH
MAR19	----	----	----	66.50 UNCH	----	----	15 UNCH
TOTAL ACM FUT							65
QX FUT	EASTERN RAIL	DELIVERY CSX	COAL				
DEC18	----	----	----	77.55 UNCH	----	----	30 UNCH
TOTAL QX FUT							30
QP FUT	WESTERN RAIL	DELIVERY PRB	COAL				
DEC18	----	----	----	12.50 UNCH	----	----	120 UNCH
TOTAL QP FUT							120

FREIGHT FUTURES PRODUCTS

	FREIGHT ROUTE	LIQUID PETROLEUM GAS	SETT. PRICE & PT. CHGE	GLOBEX® VOLUME	PNT/PIT VOLUME	OPEN INTEREST
FLP FUT						
NOV18	----	----	40.808 + 0.411	----	----	163 UNCH
DEC18	----	----	39.000 + 0.500	----	----	114 UNCH
JAN19	----	----	40.000 UNCH	----	----	76 UNCH
FEB19	----	----	40.000 UNCH	----	----	54 UNCH
MAR19	----	----	40.000 UNCH	----	----	77 UNCH
APR19	----	----	39.750 UNCH	----	----	109 UNCH
MAY19	----	----	39.750 UNCH	----	----	109 UNCH
JUN19	----	----	39.750 UNCH	----	----	42 UNCH
JUL19	----	----	40.250 UNCH	----	----	77 UNCH
AUG19	----	----	40.250 UNCH	----	----	77 UNCH
SEP19	----	----	40.250 UNCH	----	----	77 UNCH
OCT19	----	----	41.500 UNCH	----	----	77 UNCH
NOV19	----	----	41.500 UNCH	----	----	77 UNCH
DEC19	----	----	41.500 UNCH	----	----	77 UNCH
TOTAL FLP FUT						1206
FRC FUT	FREIGHT ROUTE TC14 (BAL TIC)	FUTURES				
NOV18	----	----	23.1252 + 1.4499	----	----	55 UNCH
DEC18	----	----	23.0690 + 0.6700	----	----	55 UNCH
JAN19	----	----	18.3490 + 0.1240	----	----	5 UNCH
FEB19	----	----	17.8790 + 0.1240	----	----	5 UNCH
MAR19	----	----	17.4090 + 0.1230	----	----	5 UNCH
APR19	----	----	16.7830 + 0.0740	----	----	5 UNCH
MAY19	----	----	16.5640 + 0.0620	----	----	5 UNCH
JUN19	----	----	16.5640 + 0.0620	----	----	5 UNCH
JUL19	----	----	16.3020 + 0.0220	----	----	5 UNCH
AUG19	----	----	16.3020 + 0.0220	----	----	5 UNCH
SEP19	----	----	16.3020 + 0.0220	----	----	5 UNCH
OCT19	----	----	18.0530 + 0.0450	----	----	5 UNCH
NOV19	----	----	18.0530 + 0.0450	----	----	5 UNCH
DEC19	----	----	18.0530 + 0.0450	----	----	5 UNCH
TOTAL FRC FUT						170
T2D FUT	FREIGHT ROUTE TD20 (BAL TIC)	FUTURES				
NOV18	----	----	14.7997 + 0.0142	----	----	220 UNCH
DEC18	----	----	14.0570 + 0.4590	----	----	255 UNCH
JAN19	----	----	11.7570 + 0.0700	----	----	175 UNCH
FEB19	----	----	10.9940 + 0.0700	----	----	175 UNCH
MAR19	----	----	10.5310 + 0.0700	----	----	175 UNCH
APR19	----	----	9.9650 - 0.0080	----	----	215 UNCH
MAY19	----	----	9.9740 + 0.0565	----	----	215 UNCH
JUN19	----	----	9.9740 + 0.0565	----	----	215 UNCH

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
T2D FUT FREIGHT ROUTE TD20 (BALTIC) FUTURES						
JUL19	----	----	9.7610 + 0.0350	----	----	55 UNCH
AUG19	----	----	9.7610 + 0.0350	----	----	55 UNCH
SEP19	----	----	9.7610 + 0.0350	----	----	55 UNCH
OCT19	----	----	11.7540 + 0.0700	----	----	55 UNCH
NOV19	----	----	11.7540 + 0.0700	----	----	55 UNCH
DEC19	----	----	11.7540 + 0.0700	----	----	55 UNCH
JAN20	----	----	14.1350 + 0.0200	----	----	35 UNCH
FEB20	----	----	14.1350 + 0.0200	----	----	35 UNCH
MAR20	----	----	14.1350 + 0.0200	----	----	35 UNCH
APR20	----	----	12.3323 - 0.0067	----	----	35 UNCH
MAY20	----	----	12.3323 - 0.0067	----	----	35 UNCH
JUN20	----	----	12.3323 - 0.0067	----	----	35 UNCH
JUL20	----	----	12.3323 - 0.0067	----	----	35 UNCH
AUG20	----	----	12.3323 - 0.0067	----	----	35 UNCH
SEP20	----	----	12.3323 - 0.0067	----	----	35 UNCH
OCT20	----	----	12.3323 - 0.0067	----	----	35 UNCH
NOV20	----	----	12.3323 - 0.0067	----	----	35 UNCH
DEC20	----	----	12.3323 - 0.0067	----	----	35 UNCH
TOTAL T2D FUT						2395
TD3 FUT FREIGHT ROUTE TD3C (PLATTS) FUTURES						
NOV18	----	----	14.3901 - 0.0206	----	----	10 UNCH
DEC18	----	----	12.4010 + 0.2170	----	----	10 UNCH
TOTAL TD3 FUT						20
TD8 FUT FREIGHT ROUTE TD8 (BALTIC) FUTURES						
JAN19	----	----	14.0150 UNCH	----	----	50 UNCH
FEB19	----	----	13.4810 UNCH	----	----	50 UNCH
MAR19	----	----	13.0000 UNCH	----	----	50 UNCH
TOTAL TD8 FUT						150
TM FUT TC2 ROTTERDAM TO USAC 37K MT						
NOV18	----	----	16.6310 - 0.1150	----	----	100 UNCH
DEC18	----	----	19.6060 + 1.0770	----	----	40 UNCH
JAN19	----	----	19.3760 + 0.4440	----	----	75 UNCH
FEB19	----	----	18.8650 + 0.2880	----	----	75 UNCH
MAR19	----	----	18.5000 + 0.2220	----	----	75 UNCH
TOTAL TM FUT						365
TH FUT TC5 RAS TANURA TO YOKOHAMA 55K MT						
NOV18	----	----	22.6144 + 0.0686	----	----	40 UNCH
DEC18	----	----	23.5520 + 0.2560	----	----	50 UNCH
JAN19	----	----	22.5320 - 0.2620	----	----	25 UNCH
FEB19	----	----	22.1590 - 0.2100	----	----	25 UNCH
MAR19	----	----	21.9820 - 0.1310	----	----	25 UNCH
JAN20	----	----	26.8980 - 0.1580	----	----	50 UNCH
FEB20	----	----	26.8980 - 0.1580	----	----	50 UNCH
MAR20	----	----	26.8980 - 0.1580	----	----	50 UNCH
APR20	----	----	27.4860 - 0.1473	----	----	50 UNCH
MAY20	----	----	27.4860 - 0.1473	----	----	50 UNCH
JUN20	----	----	27.4860 - 0.1473	----	----	50 UNCH
JUL20	----	----	27.4860 - 0.1473	----	----	50 UNCH
AUG20	----	----	27.4860 - 0.1473	----	----	50 UNCH
SEP20	----	----	27.4860 - 0.1473	----	----	50 UNCH
OCT20	----	----	27.4860 - 0.1473	----	----	50 UNCH
NOV20	----	----	27.4860 - 0.1473	----	----	50 UNCH
DEC20	----	----	27.4860 - 0.1473	----	----	50 UNCH
TOTAL TH FUT						765
TL FUT TD3 MEG TO JAPAN 250K MT						
NOV18	----	----	14.4186 - 0.0165	----	----	470 UNCH
DEC18	----	----	12.4010 + 0.2170	----	----	340 UNCH
JAN19	----	----	10.3460 + 0.4250	----	----	240 UNCH
FEB19	----	----	9.6020 + 0.2980	----	----	195 UNCH
MAR19	----	----	8.7030 + 0.2900	----	----	195 UNCH
APR19	----	----	8.5480 + 0.1080	----	----	377 UNCH
MAY19	----	----	8.5510 + 0.0180	----	----	377 UNCH
JUN19	----	----	8.5510 + 0.0180	----	----	577 UNCH
JUL19	----	----	8.9550 - 0.0600	----	----	245 UNCH
AUG19	----	----	8.9550 - 0.0600	----	----	245 UNCH
SEP19	----	----	8.9550 - 0.0600	----	----	245 UNCH
OCT19	----	----	11.0430 UNCH	----	----	270 UNCH
NOV19	----	----	11.0430 UNCH	----	----	270 UNCH
DEC19	----	----	11.0430 UNCH	----	----	270 UNCH
JAN20	----	----	11.8290 UNCH	----	----	160 UNCH
FEB20	----	----	11.8290 UNCH	----	----	160 UNCH
MAR20	----	----	11.8290 UNCH	----	----	160 UNCH
APR20	----	----	10.6423 + 0.0760	----	----	120 UNCH
MAY20	----	----	10.6423 + 0.0760	----	----	120 UNCH
JUN20	----	----	10.6423 + 0.0760	----	----	120 UNCH
JUL20	----	----	10.6423 + 0.0760	----	----	120 UNCH
AUG20	----	----	10.6423 + 0.0760	----	----	120 UNCH
SEP20	----	----	10.6423 + 0.0760	----	----	120 UNCH
OCT20	----	----	10.6423 + 0.0760	----	----	120 UNCH
NOV20	----	----	10.6423 + 0.0760	----	----	120 UNCH
DEC20	----	----	10.6423 + 0.0760	----	----	120 UNCH
JAN21	----	----	10.0920 UNCH	----	----	60 UNCH
FEB21	----	----	10.0920 UNCH	----	----	60 UNCH
MAR21	----	----	10.0920 UNCH	----	----	60 UNCH
APR21	----	----	10.0920 UNCH	----	----	60 UNCH
MAY21	----	----	10.0920 UNCH	----	----	60 UNCH
JUN21	----	----	10.0920 UNCH	----	----	60 UNCH
JUL21	----	----	10.0920 UNCH	----	----	60 UNCH
AUG21	----	----	10.0920 UNCH	----	----	60 UNCH
SEP21	----	----	10.0920 UNCH	----	----	60 UNCH
OCT21	----	----	10.0920 UNCH	----	----	60 UNCH
NOV21	----	----	10.0920 UNCH	----	----	60 UNCH
DEC21	----	----	10.0920 UNCH	----	----	60 UNCH
TOTAL TL FUT						6596

PLASTICS FUTURES PRODUCTS

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
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ENERGY FUTURES PRODUCTS

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	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT/PIT VOLUME	OPEN INTEREST
PGP FUT	PGP POLYMER GRD PROPYLENE CAL					
NOV18	----	----	0.46405 UNCH	----	----	212 UNCH
DEC18	----	----	0.47000 UNCH	----	----	168 UNCH
JAN19	----	----	0.47500 UNCH	----	----	161 UNCH
FEB19	----	----	0.47750 UNCH	----	----	151 UNCH
MAR19	----	----	0.48000 UNCH	----	----	151 UNCH
APR19	----	----	0.48250 UNCH	----	----	124 UNCH
MAY19	----	----	0.48500 UNCH	----	----	124 UNCH
JUN19	----	----	0.48750 UNCH	----	----	124 UNCH
JUL19	----	----	0.49000 UNCH	----	----	55 UNCH
AUG19	----	----	0.49250 UNCH	----	----	68 UNCH
SEP19	----	----	0.49750 UNCH	----	----	68 UNCH
OCT19	----	----	0.50000 UNCH	----	----	68 UNCH
NOV19	----	----	0.50375 UNCH	----	----	55 UNCH
DEC19	----	----	0.50875 UNCH	----	----	55 UNCH
TOTAL	PGP FUT					1584

EMISSIONS FUTURES PRODUCTS

	GLOBAL OPEN	GLOBAL HIGH/LOW	SETT. PRICE & PT. CHGE	GLOBAL VOLUME	PNT VOLUME	OPEN INTEREST
6T FUT	NYMEX IN DELIVRY MTH EUA (EURO) FUT					
DEC18	----	----	19.11 + 0.11	----	----	2450 UNCH
TOTAL	6T FUT					2450

CORE EX-PIT BREAKDOWN

	DELIVERY CASH OR PHY SETTLED	MONTH-TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	
NYMEX CRUDE OIL (PHYSICAL)												
DEC18	---	---	2000	---	---	---	---	---	2564	4040	43484	
JAN19	---	---	---	---	---	---	---	---	3801	133	14471	
FEB19	---	---	---	---	---	---	---	---	750	---	1722	
MAR19	---	---	---	---	---	---	---	---	3140	---	1368	
APR19	---	---	---	---	---	---	---	---	2049	---	74	
MAY19	---	---	---	---	---	---	---	---	2000	133	---	
JUN19	---	---	---	---	---	---	---	---	2168	---	---	
SEP19	---	---	---	---	---	---	---	---	656	---	---	
OCT19	---	---	---	---	---	---	---	---	78	---	---	
DEC19	---	---	---	---	---	---	---	---	4377	---	---	
JUN20	---	---	---	---	---	---	---	---	454	---	---	
SEP20	---	---	---	---	---	---	---	---	500	---	---	
DEC20	---	---	---	---	---	---	---	---	762	---	---	
Total			2000						23299	4306	61119	
NYMEX HEATING OIL (PHYSICAL)												
DEC18	---	---	1170	---	---	---	---	---	1854	---	4682	
JAN19	---	---	276	---	---	---	---	---	651	---	1086	
FEB19	---	---	---	---	---	---	---	---	399	---	86	
MAR19	---	---	---	---	---	---	---	---	897	---	68	
APR19	---	---	---	---	---	---	---	---	26	---	7	
MAY19	---	---	---	---	---	---	---	---	27	---	1	
JUN19	---	---	---	---	---	---	---	---	98	---	36	
AUG19	---	---	---	---	---	---	---	---	100	---	---	
DEC19	---	---	---	---	---	---	---	---	416	---	---	
JAN20	---	---	---	---	---	---	---	---	100	---	---	
Total			1446						4568		5966	
NYMEX NY HARBOR GAS (RBOB) (PHY)												
DEC18	---	---	2478	---	---	---	---	---	646	---	5896	
JAN19	---	---	150	---	---	---	---	---	1125	---	2358	
FEB19	---	---	---	---	---	---	---	---	600	---	122	
MAR19	---	---	---	---	---	---	---	---	725	---	83	
APR19	---	---	---	---	---	---	---	---	---	---	70	
MAY19	---	---	---	---	---	---	---	---	266	---	7	
JUN19	---	---	---	---	---	---	---	---	350	---	7	
JUL19	---	---	---	---	---	---	---	---	100	---	---	
AUG19	---	---	---	---	---	---	---	---	616	---	---	
SEP19	---	---	---	---	---	---	---	---	100	---	---	
OCT19	---	---	---	---	---	---	---	---	200	---	---	
DEC19	---	---	---	---	---	---	---	---	300	---	---	
Total			2628						5028		8543	
NATURAL GAS HENRY HUB (PHYSICAL)												
DEC18	---	---	---	---	---	---	---	---	---	1376	5046	
JAN19	---	---	---	---	---	---	---	---	---	1385	13835	
FEB19	---	---	---	---	---	---	---	---	---	---	1338	
MAR19	---	---	---	---	---	---	---	---	2770	---	1897	
APR19	---	---	---	---	---	---	---	---	2970	---	339	
MAY19	---	---	---	---	---	---	---	---	---	---	432	
JUN19	---	---	---	---	---	---	---	---	---	---	191	
OCT19	---	---	---	---	---	---	---	---	200	---	---	
Total									5940	2761	23078	
NYMEX BRENT OIL LAST DAY FUTURES												
JAN19	---	---	---	---	---	---	---	---	74	---	387	
FEB19	---	---	---	---	---	---	---	---	---	---	231	
MAR19	---	---	---	---	---	---	---	---	---	---	207	
JUN19	---	---	---	---	---	---	---	---	2512	---	---	
DEC19	---	---	---	---	---	---	---	---	1500	---	---	
JAN20	---	---	---	---	---	---	---	---	100	---	---	
FEB20	---	---	---	---	---	---	---	---	100	---	---	
DEC20	---	---	---	---	---	---	---	---	9530	---	---	
Total									13816		825	
EUROPEAN GASOIL ICE FUTURE												
E-MINI CRUDE OIL FUTURES												
E-MINI HEATING OIL FUTURES												
E-MINI GASOLINE FUTURES												
E-MINI NATURAL GAS												

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ENERGY FUTURES PRODUCTS

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CRUDE OIL EX-PIT BREAKDOWN

	DELIVERY CASH OR PHY SETTLED	MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
ARGUS LLS VS. WTI (ARG) TRD M												
JAN19	---	---	---	---	---	---	---	---	265	---	---	---
FEB19	---	---	---	---	---	---	---	---	45	---	---	---
MAR19	---	---	---	---	---	---	---	---	45	---	---	---
APR19	---	---	---	---	---	---	---	---	85	---	---	---
MAY19	---	---	---	---	---	---	---	---	85	---	---	---
JUN19	---	---	---	---	---	---	---	---	85	---	---	---
									610			
ARGUS SOUR CRUDE NDX VS WTI DIF CAL												
BRENT CALENDAR												
APR19	---	---	---	---	---	---	---	---	5	---	---	---
MAY19	---	---	---	---	---	---	---	---	5	---	---	---
JUN19	---	---	---	---	---	---	---	---	5	---	---	---
									15			
CANADIAN C5+ CONDENSATE INDEX FUT												
CANADIAN HEAVY CRUDE(NET ENRGY) FUT												
CANADIAN LIGHT SWEET OIL												
CLEARBROOK BAKKEN CRUDE OIL INDEX												
DATED TO FRONTLINE BRENT CLNDR												
DUBAI CRUDE OIL CALENDAR												
MAR19	---	---	---	---	---	---	---	---	5000	---	---	---
									5000			
EUROPE DATED BRENT												
ICE BRENT DUBAI												
LIGHT SWEET OIL NET ENERGY MONTHLY												
LLS (ARGUS) CALENDAR												
LLS (ARGUS) VS WTI												
APR19	---	---	---	---	---	---	---	---	15	---	---	---
MAY19	---	---	---	---	---	---	---	---	15	---	---	---
JUN19	---	---	---	---	---	---	---	---	15	---	---	---
JUL19	---	---	---	---	---	---	---	---	115	---	---	---
AUG19	---	---	---	---	---	---	---	---	115	---	---	---
SEP19	---	---	---	---	---	---	---	---	115	---	---	---
									390			
LOOP CRUDE OIL STORAGE FUTURES												
MARS (ARGUS) VS WTI												
MARS (ARGUS) VS WTI TRD MTH												
JAN19	---	---	---	---	---	---	---	---	180	---	---	---
FEB19	---	---	---	---	---	---	---	---	30	---	---	---
MAR19	---	---	---	---	---	---	---	---	30	---	---	---
APR19	---	---	---	---	---	---	---	---	30	---	---	---
MAY19	---	---	---	---	---	---	---	---	30	---	---	---
JUN19	---	---	---	---	---	---	---	---	30	---	---	---
									330			
NYMEX BRENT FINANCIAL FUTURES												
WEST TEXAS INTER CRUDE OIL CAL												
NOV18	---	---	---	---	---	---	---	---	150	---	---	---
DEC18	---	---	---	---	---	---	---	---	291	---	---	---
JAN19	---	---	---	---	---	---	---	---	126	---	---	---
									567			
WESTERN CANADIAN SELECT OIL MONTHLY												
WTI BALMO												
16NOV18	---	---	---	---	---	---	---	---	15	---	---	---
									15			
WTI FINANCIAL FUTURES												
WTI HOUSTON ARGUS V. WTI TRADE MONTH												
JAN19	---	---	---	---	---	---	---	---	150	---	---	---
FEB19	---	---	---	---	---	---	---	---	150	---	---	---
MAR19	---	---	---	---	---	---	---	---	50	---	---	---
APR19	---	---	---	---	---	---	---	---	130	---	---	---
MAY19	---	---	---	---	---	---	---	---	130	---	---	---
JUN19	---	---	---	---	---	---	---	---	130	---	---	---
									740			
WTI HOUSTON CRUDE OIL FUTURES												
WTI MIDLAND (ARG) VS. WTI TRADE MTH												
JAN19	---	---	---	---	---	---	---	---	70	---	---	---
FEB19	---	---	---	---	---	---	---	---	30	---	---	---
MAR19	---	---	---	---	---	---	---	---	30	---	---	---
APR19	---	---	---	---	---	---	---	---	110	---	---	---
MAY19	---	---	---	---	---	---	---	---	110	---	---	---
JUN19	---	---	---	---	---	---	---	---	110	---	---	---
									460			
WTI MIDLAND(ARGUS) VS WTI FINCL FUT												
WTI-BRENT BULLET												
WTI-BRENT CALENDAR												
DEC18	---	---	---	---	---	---	---	---	1155	---	---	---
APR19	---	---	---	---	---	---	---	---	50	---	---	---
MAY19	---	---	---	---	---	---	---	---	50	---	---	---
JUN19	---	---	---	---	---	---	---	---	50	---	---	---
JAN21	---	---	---	---	---	---	---	---	10	---	---	---
FEB21	---	---	---	---	---	---	---	---	10	---	---	---
MAR21	---	---	---	---	---	---	---	---	10	---	---	---
APR21	---	---	---	---	---	---	---	---	10	---	---	---
MAY21	---	---	---	---	---	---	---	---	10	---	---	---
JUN21	---	---	---	---	---	---	---	---	10	---	---	---
JUL21	---	---	---	---	---	---	---	---	10	---	---	---
AUG21	---	---	---	---	---	---	---	---	10	---	---	---
SEP21	---	---	---	---	---	---	---	---	10	---	---	---
OCT21	---	---	---	---	---	---	---	---	10	---	---	---
NOV21	---	---	---	---	---	---	---	---	10	---	---	---



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ENERGY FUTURES PRODUCTS

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DELIVERY CASH OR PHY SETTLED	MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL
DOMINION TRAN INC - APP INDEX										
DOMINION TRANSMISSION INC -APPALAC										
DUTCH TTF NATURAL GAS CAL MONTH FUT										
DUTCH TTF NATURAL GAS FRONT MTH FUT										
HENRY HUB										
DEC18	---	---	---	---	---	---	---	124	---	---
JAN19	---	---	---	---	---	---	---	128	---	---
FEB19	---	---	---	---	---	---	---	112	---	---
MAR19	---	---	---	---	---	---	---	136	---	---
APR19	---	---	---	---	---	---	---	368	---	---
MAY19	---	---	---	---	---	---	---	360	---	---
JUN19	---	---	---	---	---	---	---	360	---	---
JUL19	---	---	---	---	---	---	---	368	---	---
AUG19	---	---	---	---	---	---	---	376	---	---
SEP19	---	---	---	---	---	---	---	368	---	---
OCT19	---	---	---	---	---	---	---	356	---	---
NOV19	---	---	---	---	---	---	---	404	---	---
DEC19	---	---	---	---	---	---	---	430	---	---
JAN20	---	---	---	---	---	---	---	528	---	---
FEB20	---	---	---	---	---	---	---	512	---	---
MAR20	---	---	---	---	---	---	---	528	---	---
APR20	---	---	---	---	---	---	---	124	---	---
MAY20	---	---	---	---	---	---	---	130	---	---
JUN20	---	---	---	---	---	---	---	132	---	---
JUL20	---	---	---	---	---	---	---	134	---	---
AUG20	---	---	---	---	---	---	---	134	---	---
SEP20	---	---	---	---	---	---	---	124	---	---
OCT20	---	---	---	---	---	---	---	110	---	---
NOV20	---	---	---	---	---	---	---	116	---	---
DEC20	---	---	---	---	---	---	---	118	---	---
JAN21	---	---	---	---	---	---	---	12	---	---
FEB21	---	---	---	---	---	---	---	12	---	---
MAR21	---	---	---	---	---	---	---	12	---	---
JAN23	---	---	---	---	---	---	---	31	---	---
FEB23	---	---	---	---	---	---	---	28	---	---
MAR23	---	---	---	---	---	---	---	31	---	---
APR23	---	---	---	---	---	---	---	30	---	---
MAY23	---	---	---	---	---	---	---	31	---	---
JUN23	---	---	---	---	---	---	---	30	---	---
JUL23	---	---	---	---	---	---	---	31	---	---
AUG23	---	---	---	---	---	---	---	31	---	---
SEP23	---	---	---	---	---	---	---	30	---	---
OCT23	---	---	---	---	---	---	---	31	---	---
NOV23	---	---	---	---	---	---	---	30	---	---
DEC23	---	---	---	---	---	---	---	31	---	---
								6981		
HENRY HUB BASIS										
HENRY HUB INDEX FUTURE										
HENRY HUB NG LAST DAY FINANCIAL										
DEC18	---	---	---	---	---	---	---	934	63	---
JAN19	---	---	---	---	---	---	---	1142	---	---
FEB19	---	---	---	---	---	---	---	47	---	---
MAR19	---	---	---	---	---	---	---	1345	---	---
APR19	---	---	---	---	---	---	---	1115	---	---
MAY19	---	---	---	---	---	---	---	1137	---	---
JUN19	---	---	---	---	---	---	---	236	---	---
JUL19	---	---	---	---	---	---	---	496	---	---
AUG19	---	---	---	---	---	---	---	45	---	---
SEP19	---	---	---	---	---	---	---	240	---	---
OCT19	---	---	---	---	---	---	---	2632	---	---
NOV19	---	---	---	---	---	---	---	5988	---	---
DEC19	---	---	---	---	---	---	---	442	---	---
JAN20	---	---	---	---	---	---	---	37	---	---
FEB20	---	---	---	---	---	---	---	37	---	---
MAR20	---	---	---	---	---	---	---	1189	---	---
APR20	---	---	---	---	---	---	---	3999	---	---
MAY20	---	---	---	---	---	---	---	71	---	---
JUN20	---	---	---	---	---	---	---	153	---	---
JUL20	---	---	---	---	---	---	---	21	---	---
AUG20	---	---	---	---	---	---	---	21	---	---
SEP20	---	---	---	---	---	---	---	19	---	---
OCT20	---	---	---	---	---	---	---	121	---	---
NOV20	---	---	---	---	---	---	---	59	---	---
DEC20	---	---	---	---	---	---	---	809	---	---
JAN21	---	---	---	---	---	---	---	1	---	---
FEB21	---	---	---	---	---	---	---	1	---	---
MAR21	---	---	---	---	---	---	---	1	---	---
MAY21	---	---	---	---	---	---	---	1	---	---
JUL21	---	---	---	---	---	---	---	1	---	---
AUG21	---	---	---	---	---	---	---	1	---	---
OCT21	---	---	---	---	---	---	---	1	---	---
DEC21	---	---	---	---	---	---	---	1	---	---
								22343	63	
HENRY HUB PENULTIMATE FUT										
DEC18	---	---	---	---	---	---	---	535	---	---
JAN19	---	---	---	---	---	---	---	73	---	---
FEB19	---	---	---	---	---	---	---	555	---	---
MAR19	---	---	---	---	---	---	---	1204	---	---
APR19	---	---	---	---	---	---	---	3384	---	---
MAY19	---	---	---	---	---	---	---	1390	---	---
JUL19	---	---	---	---	---	---	---	684	---	---
								7825		
HOUSTON SHIP CHANNEL BASIS										
LNG JAPAN KOREA MARKER PLATTS										
MICHIGAN BASIS										
NGPL MID-CONTINENT										
NGPL TEX /OK										
NORTHEN NATURAL GAS DEMARCATION										
NORTHEN NATURAL GAS VENTURA IOWA										

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	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
DEC18	---	---	---	---	---	---	---	---	1382	---	---	---
JAN19	---	---	---	---	---	---	---	---	2596	---	---	---
FEB19	---	---	---	---	---	---	---	---	2803	---	---	---
MAR19	---	---	---	---	---	---	---	---	2660	---	---	---
APR19	---	---	---	---	---	---	---	---	1123	---	---	---
MAY19	---	---	---	---	---	---	---	---	1216	---	---	---
JUN19	---	---	---	---	---	---	---	---	632	---	---	---
JUL19	---	---	---	---	---	---	---	---	780	---	---	---
AUG19	---	---	---	---	---	---	---	---	672	---	---	---
SEP19	---	---	---	---	---	---	---	---	672	---	---	---
OCT19	---	---	---	---	---	---	---	---	672	---	---	---
NOV19	---	---	---	---	---	---	---	---	602	---	---	---
DEC19	---	---	---	---	---	---	---	---	568	---	---	---
JAN20	---	---	---	---	---	---	---	---	27	---	---	---
FEB20	---	---	---	---	---	---	---	---	27	---	---	---
MAR20	---	---	---	---	---	---	---	---	27	---	---	---
APR20	---	---	---	---	---	---	---	---	27	---	---	---
MAY20	---	---	---	---	---	---	---	---	27	---	---	---
JUN20	---	---	---	---	---	---	---	---	27	---	---	---
JUL20	---	---	---	---	---	---	---	---	27	---	---	---
AUG20	---	---	---	---	---	---	---	---	27	---	---	---
SEP20	---	---	---	---	---	---	---	---	27	---	---	---
OCT20	---	---	---	---	---	---	---	---	27	---	---	---
NOV20	---	---	---	---	---	---	---	---	27	---	---	---
DEC20	---	---	---	---	---	---	---	---	27	---	---	---
									15320			

ONEOK OKLAHOMA NG BASIS
PANHANDLE BASIS FUTURE
PANHANDLE PIPE
PERMIAN BASIS
SAN JUAN BASIS
SAN JUAN PIPE
SOUTH STAR TEX OKLHM KNS NG B
SUMAS BASIS
TCO BASIS
TETCO STX BASIS
TEXAS EASTERN ZONE M-3 BASIS
TEXAS GAS ZONE1 NG BASIS
TRANSCO ZONE 3 BASIS
TRANSCO ZONE 6 BASIS
TRANSCO ZONE 6 NON NY BASIS
TRANSCO ZONE4 BASIS
UK NBP NAT GAS CAL MTH FUT
WAHA BASIS

PETROLEUM EX-PIT BREAKDOWN

	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
1% FUEL OIL (PLT) CARG CIF MED												
1% FUEL OIL (PLT) CARG CIF NWE												
1.0% FUEL OIL (PLATTS) FOB NWE												
3.5% FUEL OIL (PLATTS) FOB RDA												
DEC18	---	---	---	---	---	---	---	---	15	---	---	---
JAN19	---	---	---	---	---	---	---	---	6	---	---	---
FEB19	---	---	---	---	---	---	---	---	6	---	---	---
MAR19	---	---	---	---	---	---	---	---	6	---	---	---
APR19	---	---	---	---	---	---	---	---	5	---	---	---
MAY19	---	---	---	---	---	---	---	---	5	---	---	---
JUN19	---	---	---	---	---	---	---	---	5	---	---	---
JUL19	---	---	---	---	---	---	---	---	1	---	---	---
AUG19	---	---	---	---	---	---	---	---	1	---	---	---
SEP19	---	---	---	---	---	---	---	---	1	---	---	---
OCT19	---	---	---	---	---	---	---	---	1	---	---	---
NOV19	---	---	---	---	---	---	---	---	1	---	---	---
DEC19	---	---	---	---	---	---	---	---	1	---	---	---
									54			
3.5% FUEL OIL CID MED												
3.5% FUEL OIL RDAM VS FOB MED BALM												
ARGUS GASOLINE NWE CRACK SPR												
ARGUS PROPANE FAR EAST INDEX VS. JA												
CHICAGO ULSD PL VS HO SPR												
E/W NAPHTHA JAPAN CF-CARGOS CIF NWE												
EAST/WEST FUEL OIL SPREAD												
EAST-WST GASOLINE SPREAD PLATTS/ARG												
EIA FLAT TAX ONHWAY DIESEL												
EIA FLAT TAX US RETAIL GASOLINE												
EUR1%FUEL OIL FOB MED-EUR1% FOB NWE												
EUR3.5%FUEL OIL CARGO FOB MED BALMO												
EURO 3.5% FUEL OIL RDAM BALMO												
EURO 3.5% FUEL OIL SPREAD												
EURO DIESEL 10PPM VS ICE												
EURO PPNE CIFARG VS NAPHTHA NWE SW												
JAN19	---	---	---	---	---	---	---	---	6	---	---	---
FEB19	---	---	---	---	---	---	---	---	6	---	---	---
MAR19	---	---	---	---	---	---	---	---	6	---	---	---
									18			
EUROPE 1% FUEL OIL NWE CAL												



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	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
JAN19	---	---	---	---	---	---	---	---	20	---	---	---
FEB19	---	---	---	---	---	---	---	---	35	---	---	---
MAR19	---	---	---	---	---	---	---	---	25	---	---	---
JUN19	---	---	---	---	---	---	---	---	25	---	---	---
NOV19	---	---	---	---	---	---	---	---	20	---	---	---
DEC19	---	---	---	---	---	---	---	---	20	---	---	---
									125			
EUROPE JET KERO NWE CAL												
EUROPE NAPHTHA CAL												
DEC18	---	---	---	---	---	---	---	---	25	---	---	---
JAN19	---	---	---	---	---	---	---	---	17	---	---	---
FEB19	---	---	---	---	---	---	---	---	12	---	---	---
MAR19	---	---	---	---	---	---	---	---	7	---	---	---
APR19	---	---	---	---	---	---	---	---	1	---	---	---
MAY19	---	---	---	---	---	---	---	---	1	---	---	---
JUN19	---	---	---	---	---	---	---	---	1	---	---	---
									64			
EUROPEAN NAPHTHA BALMO												
EUROPEAN NAPHTHA CRACK SPREAD												
DEC18	---	---	---	---	---	---	---	---	305	---	---	---
JAN19	---	---	---	---	---	---	---	---	59	---	---	---
FEB19	---	---	---	---	---	---	---	---	59	---	---	---
MAR19	---	---	---	---	---	---	---	---	59	---	---	---
MAY19	---	---	---	---	---	---	---	---	75	---	---	---
									557			
FUEL OIL CARGOES VS. BARGES												
FUEL OIL CRACK VS ICE												
DEC18	---	---	---	---	---	---	---	---	57	---	---	---
									57			
FUEL OIL NWE CRACK VS ICE												
G. COAST #6 FUEL OIL 3.0% VS BRENT												
GAS EUROBOB (ARGUS) BALMO												
GAS EUROBOB (ARGUS) CRK BALMO												
GAS EURO-BOB OXY (ARG) CRACK												
DEC18	---	---	---	---	---	---	---	---	50	---	---	---
									50			
GAS EURO-BOB OXY (ARG) NEW BRG												
DEC18	---	---	---	---	---	---	---	---	222	---	---	---
JAN19	---	---	---	---	---	---	---	---	191	---	---	---
FEB19	---	---	---	---	---	---	---	---	5	---	---	---
MAR19	---	---	---	---	---	---	---	---	5	---	---	---
APR19	---	---	---	---	---	---	---	---	26	---	---	---
MAY19	---	---	---	---	---	---	---	---	1	---	---	---
JUN19	---	---	---	---	---	---	---	---	1	---	---	---
									451			
GASOIL (ICE) CRACK SPREAD												
GASOIL 0.1 RDAM BRGS VS ICE												
GASOIL 0.1 ROTTERDAM BARGES SW												
DEC18	---	---	---	---	---	---	---	---	5	---	---	---
									5			
GASOIL 10PPM VS ICE												
GASOIL CALENDAR												
GASOIL CRACK SPREAD CALENDAR												
GASOIL MINI CALENDAR												
GROUP THREE ULSD (PLATTS)												
GROUP THREE UNLEAD GAS (PLTS)												
GRP THREE ULSD(PLT)VS HEAT OIL												
DEC18	---	---	---	---	---	---	---	---	60	---	---	---
									60			
GRP THREE UNL GS (PLT) VS RBOB												
DEC18	---	---	---	---	---	---	---	---	100	---	---	---
									100			
GULF CBOB A2 PL VS RBOB SPR F												
DEC18	---	---	---	---	---	---	---	---	600	---	---	---
									600			
GULF CO NO6 FUELOIL 3% V. EURO 3.5%												
DEC18	---	---	---	---	---	---	---	---	10	---	---	---
									10			
GULF COAST 3% FUEL OIL BALMO												
16NOV18	---	---	---	---	---	---	---	---	5	---	---	---
									5			
GULF COAST HSFO (PLATTS) FUTURES												
DEC18	---	---	---	---	---	---	---	---	981	---	---	---
JAN19	---	---	---	---	---	---	---	---	733	---	---	---
									1714			
GULF COAST JET FUEL CLNDR												
GULF COAST JET VS NYM 2 HO SPRD												
DEC18	---	---	---	---	---	---	---	---	950	---	---	---
JAN19	---	---	---	---	---	---	---	---	400	---	---	---
APR19	---	---	---	---	---	---	---	---	75	---	---	---
MAY19	---	---	---	---	---	---	---	---	75	---	---	---
JUN19	---	---	---	---	---	---	---	---	75	---	---	---
JUL19	---	---	---	---	---	---	---	---	125	---	---	---
AUG19	---	---	---	---	---	---	---	---	125	---	---	---
SEP19	---	---	---	---	---	---	---	---	125	---	---	---
									1950			
GULF COAST NO.6 FUEL OIL CRACK												
GULF COAST ULSD CALENDAR												

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PG61	BULLETIN #223@	ENERGY FUTURES PRODUCTS										Fri, Nov 16, 2018	PG61
	DELIVERY CASH OR SETTLED	PHY MONTH-TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL	
OCT19	---	---	---	---	---	---	---	---	8	---	---	---	
NOV19	---	---	---	---	---	---	---	---	8	---	---	---	
DEC19	---	---	---	---	---	---	---	---	8	---	---	---	
									16				
JAPAN C&F NAPHTHA													
DEC18	---	---	---	---	---	---	---	---	31	---	---	---	
									31				
JAPAN C&F NAPHTHA CRACK SPREAD													
JAPAN NAPHTHA BALMO													
JET AVIA FUEL(PLTT) CRGS FOB M													
JET AVIA FUEL(PLTT) FOB V. ICE													
JET CIF NWE VS ICE													
JET FUEL UP-DOWN BALMO CLNDR S													
16NOV18	---	---	---	---	---	---	---	---	200	---	---	---	
									200				
LA CARB DIESEL (OPIS)													
LA CARBOB GASOLINE(OPIS)													
DEC18	---	---	---	---	---	---	---	---	50	---	---	---	
									50				
LA JET (OPIS)													
DEC18	---	---	---	---	---	---	---	---	25	---	---	---	
									25				
MICRO EUROPEAN 3.5% FUEL OIL BARGES													
MICRO SINGAPORE FUEL OIL 380CST (PL													
NOV18	---	---	---	---	---	---	---	---	15	---	---	---	
DEC18	---	---	---	---	---	---	---	---	20	---	---	---	
									35				
MIN ARGUS PROPANE SAUDI ARAMCO													
DEC18	---	---	---	---	---	---	---	---	10	---	---	---	
JAN19	---	---	---	---	---	---	---	---	10	---	---	---	
									20				
MIN EURO NPHTHA CIF NWE													
DEC18	---	---	---	---	---	---	---	---	225	---	---	---	
JAN19	---	---	---	---	---	---	---	---	3	---	---	---	
FEB19	---	---	---	---	---	---	---	---	3	---	---	---	
MAR19	---	---	---	---	---	---	---	---	3	---	---	---	
APR19	---	---	---	---	---	---	---	---	3	---	---	---	
MAY19	---	---	---	---	---	---	---	---	3	---	---	---	
JUN19	---	---	---	---	---	---	---	---	3	---	---	---	
JUL19	---	---	---	---	---	---	---	---	3	---	---	---	
AUG19	---	---	---	---	---	---	---	---	3	---	---	---	
SEP19	---	---	---	---	---	---	---	---	3	---	---	---	
OCT19	---	---	---	---	---	---	---	---	3	---	---	---	
NOV19	---	---	---	---	---	---	---	---	3	---	---	---	
DEC19	---	---	---	---	---	---	---	---	3	---	---	---	
									261				
MIN GSL .1 PLTS CRGS CIFNWE VS GSL													
MIN JAPAN C&F NAPHTHA PLATTS													
DEC18	---	---	---	---	---	---	---	---	190	---	---	---	
									190				
MIN JETKERO CRGOS CIF NWE VS GASOIL													
MIN SPORE FUELOIL380CST(PLTS) BALMO													
MIN ULSD 10PPM CRGS CIF NWE VS GSL													
MINI 3.5% FUEL OIL CAR MED													
MINI ARGUS PROPANE FAR EAST IDX													
DEC18	---	---	---	---	---	---	---	---	10	---	---	---	
JAN19	---	---	---	---	---	---	---	---	10	---	---	---	
									20				
MINI EU 1%FO BARGE FOB RDAM FUT													
MINI EU 1%FO CARGO FOB NWE FUT													
MINI EU 3.5%FO BARGE FOB RDAM FUT													
DEC18	---	---	---	---	---	---	---	---	30	---	---	---	
									30				
MINI EUR DIESEL10PPM VS ICE GS													
MINI EURO NAPHTHA BALMO													
MINI GAS EUROBOB OXY BARGES													
DEC18	---	---	---	---	---	---	---	---	36	---	---	---	
JAN19	---	---	---	---	---	---	---	---	80	---	---	---	
									116				
MINI GAS EUROBOB OXY NWE ARGS BALMO													
MINI RBOB V. EBOB(ARGUS) NWE BRGS													
MINI SINGAPORE 380CST FUEL OIL													
NOV18	---	---	---	---	---	---	---	---	18	---	---	---	
DEC18	---	---	---	---	---	---	---	---	175	---	---	---	
JAN19	---	---	---	---	---	---	---	---	38	---	---	---	
FEB19	---	---	---	---	---	---	---	---	28	---	---	---	
MAR19	---	---	---	---	---	---	---	---	18	---	---	---	
APR19	---	---	---	---	---	---	---	---	8	---	---	---	
MAY19	---	---	---	---	---	---	---	---	28	---	---	---	
JUN19	---	---	---	---	---	---	---	---	8	---	---	---	
JUL19	---	---	---	---	---	---	---	---	8	---	---	---	
AUG19	---	---	---	---	---	---	---	---	28	---	---	---	
SEP19	---	---	---	---	---	---	---	---	28	---	---	---	
OCT19	---	---	---	---	---	---	---	---	8	---	---	---	
NOV19	---	---	---	---	---	---	---	---	8	---	---	---	
DEC19	---	---	---	---	---	---	---	---	8	---	---	---	
									409				
MINI SINGAPORE FO 180 CST BALMO FUT													

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	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL	
FEB20	---	---	---	---	---	---	---	---	1	---	---	---	
MAR20	---	---	---	---	---	---	---	---	1	---	---	---	
APR20	---	---	---	---	---	---	---	---	1	---	---	---	
MAY20	---	---	---	---	---	---	---	---	1	---	---	---	
JUN20	---	---	---	---	---	---	---	---	1	---	---	---	
JUL20	---	---	---	---	---	---	---	---	1	---	---	---	
AUG20	---	---	---	---	---	---	---	---	1	---	---	---	
SEP20	---	---	---	---	---	---	---	---	1	---	---	---	
OCT20	---	---	---	---	---	---	---	---	1	---	---	---	
NOV20	---	---	---	---	---	---	---	---	1	---	---	---	
DEC20	---	---	---	---	---	---	---	---	1	---	---	---	
									10				
NWE EUR FUEL OIL HGHLOW SULF BALMO													
NY 3% FUEL OIL V GULF COAST NO6 3%													
NY 3.0% FUEL OIL (PLATTS)													
NY BUCKEYE JET FUEL V. NY HR BALMO													
NY BUCKEYE JET FUEL VS NY HARB ULSD													
DEC18	---	---	---	---	---	---	---	---	100	---	---	---	
JAN19	---	---	---	---	---	---	---	---	100	---	---	---	
									200				
NY HARBOR LOW SULPUR GAS 1000MBBL													
NY HARBOR RESIDUAL FUEL 1.0% S													
DEC18	---	---	---	---	---	---	---	---	25	---	---	---	
FEB19	---	---	---	---	---	---	---	---	10	---	---	---	
									35				
NY HARBOR RESIDUAL FUEL CRACK													
NY ULSD(ARGUS) VS HO SPREAD													
NY1% VS GC SPREAD													
NYH NO 2 CRACK SPREAD CAL													
NYMEX HEATING OIL FUTURES													
NYMEX NY HARBOR HEAT OIL CLNDR													
NYMEX RBOB GASOLINE FUTURES													
NYM-SINGAPORE FUEL OIL 380CST CRK S													
PREM UNL GAS 10 PPM BALMO													
PREM UNL GAS 10 PPM (PLTS) RDM													
PREMIUM UNLD 10P FOB MED													
PREMIUM UNLEAD 10PPM FOB BLMO													
RBOB CALENDAR FUTURE													
RBOB CRACK SPREAD													
DEC18	---	---	---	---	---	---	---	---	25	---	---	---	
									25				
RBOB GAS VS EUROBOB(ARGUS) NWE BRGS													
DEC18	---	---	---	---	---	---	---	---	54	---	---	---	
APR19	---	---	---	---	---	---	---	---	15	---	---	---	
									69				
RBOB GAS VS. BRENT CRCK SPRD													
JAN19	---	---	---	---	---	---	---	---	50	---	---	---	
FEB19	---	---	---	---	---	---	---	---	50	---	---	---	
MAR19	---	---	---	---	---	---	---	---	150	---	---	---	
MAY19	---	---	---	---	---	---	---	---	75	---	---	---	
OCT19	---	---	---	---	---	---	---	---	40	---	---	---	
NOV19	---	---	---	---	---	---	---	---	40	---	---	---	
DEC19	---	---	---	---	---	---	---	---	40	---	---	---	
									445				
RBOB GASOLINE BALMO CLNDR													
RBOB VS HEATING OIL													
SING 380 FUEL OIL VS FUEL OIL ROTDM													
APR19	---	---	---	---	---	---	---	---	5	---	---	---	
MAY19	---	---	---	---	---	---	---	---	5	---	---	---	
JUN19	---	---	---	---	---	---	---	---	5	---	---	---	
									15				
SINGAPORE 180CST BALMO													
SINGAPORE 380CST BALMO													
19NOV18	---	---	---	---	---	---	---	---	5	---	---	---	
									5				
SINGAPORE 380CST FUEL OIL													
DEC18	---	---	---	---	---	---	---	---	170	---	---	---	
JAN19	---	---	---	---	---	---	---	---	21	---	---	---	
FEB19	---	---	---	---	---	---	---	---	26	---	---	---	
MAR19	---	---	---	---	---	---	---	---	25	---	---	---	
APR19	---	---	---	---	---	---	---	---	60	---	---	---	
									302				
SINGAPORE FUEL 180CST CAL													
SINGAPORE FUEL OIL SPREAD													
JAN19	---	---	---	---	---	---	---	---	5	---	---	---	
									5				
SINGAPORE GASOIL													
DEC18	---	---	---	---	---	---	---	---	50	---	---	---	
									50				
SINGAPORE GASOIL BALMO													
SINGAPORE GASOIL VS ICE													
SINGAPORE JET KERO GASOIL													
SINGAPORE JET KEROSENE													
SINGAPORE MOGAS 95													
SINGAPORE MOGAS95-SINGAPORE MOGAS92													
SINGAPORE GASOIL 10PPM V GSOLSPD FUT													

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PG61 BULLETIN #223@		ENERGY FUTURES PRODUCTS								Fri, Nov 16, 2018 PG61		
	DELIVERY CASH OR PHY SETTLED	MONTH-TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
FEB19	---	---	---	---	---	---	---	---	2	---	---	---
MAR19	---	---	---	---	---	---	---	---	2	---	---	---
									6			
ARGUS PROPAN FAR EST INDEX												
DEC18	---	---	---	---	---	---	---	---	148	---	---	---
JAN19	---	---	---	---	---	---	---	---	75	---	---	---
FEB19	---	---	---	---	---	---	---	---	26	---	---	---
MAR19	---	---	---	---	---	---	---	---	24	---	---	---
APR19	---	---	---	---	---	---	---	---	17	---	---	---
MAY19	---	---	---	---	---	---	---	---	5	---	---	---
JUN19	---	---	---	---	---	---	---	---	5	---	---	---
									300			
ARGUS PROPAN(SAUDI ARAMCO)												
DEC18	---	---	---	---	---	---	---	---	52	---	---	---
JAN19	---	---	---	---	---	---	---	---	39	---	---	---
FEB19	---	---	---	---	---	---	---	---	53	---	---	---
MAR19	---	---	---	---	---	---	---	---	25	---	---	---
									169			
ARGUS PROPANE FAR E INDX BALMO												
CONWAY NAT GASOLINE												
CONWAY NML BUT (OPIS) BALMO												
CONWAY NORMAL BUTANE												
CONWAY PROPANE (OPIS) BALMO												
19NOV18	---	---	---	---	---	---	---	---	10	---	---	---
									10			
CONWAY PROPANE 5 DEC.												
DEC18	---	---	---	---	---	---	---	---	125	---	---	---
JAN19	---	---	---	---	---	---	---	---	10	---	---	---
FEB19	---	---	---	---	---	---	---	---	30	---	---	---
MAR19	---	---	---	---	---	---	---	---	30	---	---	---
APR19	---	---	---	---	---	---	---	---	10	---	---	---
MAY19	---	---	---	---	---	---	---	---	10	---	---	---
JUN19	---	---	---	---	---	---	---	---	10	---	---	---
JAN20	---	---	---	---	---	---	---	---	35	---	---	---
FEB20	---	---	---	---	---	---	---	---	35	---	---	---
MAR20	---	---	---	---	---	---	---	---	35	---	---	---
									330			
EUR PROPANE CIF ARA ARGUS BALMO												
EURO PROPANE CIF ARA												
DEC18	---	---	---	---	---	---	---	---	21	---	---	---
JAN19	---	---	---	---	---	---	---	---	17	---	---	---
FEB19	---	---	---	---	---	---	---	---	2	---	---	---
MAR19	---	---	---	---	---	---	---	---	7	---	---	---
APR19	---	---	---	---	---	---	---	---	11	---	---	---
JAN20	---	---	---	---	---	---	---	---	5	---	---	---
FEB20	---	---	---	---	---	---	---	---	5	---	---	---
MAR20	---	---	---	---	---	---	---	---	5	---	---	---
									73			
MINI EURO PROPANE CIF ARA ARGUS FUT												
DEC18	---	---	---	---	---	---	---	---	15	---	---	---
									15			
MT BELVIEU ETHANE BALMO												
MT BELVIEU LDH PROPANE BALMO												
19NOV18	---	---	---	---	---	---	---	---	50	---	---	---
									50			
MT BELVIEU NAT GASOLINE BALMO												
MT BELVIEU NORMAL BUTANE BALM												
MT BELVIEU ETHANE 5-DCML (OPIS)												
DEC18	---	---	---	---	---	---	---	---	35	---	---	---
JAN19	---	---	---	---	---	---	---	---	10	---	---	---
FEB19	---	---	---	---	---	---	---	---	10	---	---	---
MAR19	---	---	---	---	---	---	---	---	60	---	---	---
APR19	---	---	---	---	---	---	---	---	10	---	---	---
MAY19	---	---	---	---	---	---	---	---	60	---	---	---
JUN19	---	---	---	---	---	---	---	---	10	---	---	---
APR20	---	---	---	---	---	---	---	---	10	---	---	---
MAY20	---	---	---	---	---	---	---	---	10	---	---	---
JUN20	---	---	---	---	---	---	---	---	10	---	---	---
JUL20	---	---	---	---	---	---	---	---	13	---	---	---
AUG20	---	---	---	---	---	---	---	---	13	---	---	---
SEP20	---	---	---	---	---	---	---	---	13	---	---	---
OCT20	---	---	---	---	---	---	---	---	13	---	---	---
NOV20	---	---	---	---	---	---	---	---	13	---	---	---
DEC20	---	---	---	---	---	---	---	---	13	---	---	---
									303			
MT BELVIEU ETHYLENE (PCW) BALMO												
MT BELVIEU ETHYLENE (PCW) FINCL												
MT BELVIEU ETHYLENE IN-WELL (PCW)												
MT BELVIEU ISO BUTANE 5 DEC. S												
MT BELVIEU NAT GAS 5-DCML (OPIS)												
DEC18	---	---	---	---	---	---	---	---	50	---	---	---
									50			
MT BELVIEU NORMAL BUTANE LDH(OPIS)												
MT BELVIEU NRM BUTANE 5-DCML (OPIS)												
DEC18	---	---	---	---	---	---	---	---	805	---	---	---
JAN19	---	---	---	---	---	---	---	---	840	---	---	---
FEB19	---	---	---	---	---	---	---	---	75	---	---	---
MAR19	---	---	---	---	---	---	---	---	20	---	---	---
APR19	---	---	---	---	---	---	---	---	25	---	---	---
MAY19	---	---	---	---	---	---	---	---	25	---	---	---
JUN19	---	---	---	---	---	---	---	---	25	---	---	---
JUL19	---	---	---	---	---	---	---	---	22	---	---	---
AUG19	---	---	---	---	---	---	---	---	22	---	---	---
SEP19	---	---	---	---	---	---	---	---	22	---	---	---

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	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
NOV19	---	---	---	---	---	---	---	---	73	---	---	---
DEC19	---	---	---	---	---	---	---	---	73	---	---	---
JAN20	---	---	---	---	---	---	---	---	55	---	---	---
FEB20	---	---	---	---	---	---	---	---	55	---	---	---
MAR20	---	---	---	---	---	---	---	---	55	---	---	---
APR20	---	---	---	---	---	---	---	---	20	---	---	---
MAY20	---	---	---	---	---	---	---	---	20	---	---	---
JUN20	---	---	---	---	---	---	---	---	20	---	---	---
JUL20	---	---	---	---	---	---	---	---	10	---	---	---
AUG20	---	---	---	---	---	---	---	---	10	---	---	---
SEP20	---	---	---	---	---	---	---	---	10	---	---	---
OCT20	---	---	---	---	---	---	---	---	10	---	---	---
NOV20	---	---	---	---	---	---	---	---	10	---	---	---
DEC20	---	---	---	---	---	---	---	---	10	---	---	---
JAN21	---	---	---	---	---	---	---	---	10	---	---	---
FEB21	---	---	---	---	---	---	---	---	10	---	---	---
MAR21	---	---	---	---	---	---	---	---	10	---	---	---
APR21	---	---	---	---	---	---	---	---	10	---	---	---
MAY21	---	---	---	---	---	---	---	---	10	---	---	---
JUN21	---	---	---	---	---	---	---	---	10	---	---	---
JUL21	---	---	---	---	---	---	---	---	10	---	---	---
AUG21	---	---	---	---	---	---	---	---	10	---	---	---
SEP21	---	---	---	---	---	---	---	---	10	---	---	---
OCT21	---	---	---	---	---	---	---	---	10	---	---	---
NOV21	---	---	---	---	---	---	---	---	10	---	---	---
DEC21	---	---	---	---	---	---	---	---	10	---	---	---
									2369			
PROPANE NON LDH MT BELVIEU												
DEC18	---	---	---	---	---	---	---	---	250	---	---	---
JAN19	---	---	---	---	---	---	---	---	101	---	---	---
MAR19	---	---	---	---	---	---	---	---	25	---	---	---
									376			

PROPANE NON LDH MT BLV BALMO

ETHANOL EX-PIT BREAKDOWN

	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
CHICAGO ETHANOL												
NOV18	---	---	---	---	---	---	---	---	42	---	---	---
DEC18	---	---	---	---	---	---	---	---	1518	---	---	---
JAN19	---	---	---	---	---	---	---	---	891	---	---	---
FEB19	---	---	---	---	---	---	---	---	830	---	---	---
MAR19	---	---	---	---	---	---	---	---	225	---	---	---
JUN19	---	---	---	---	---	---	---	---	70	---	---	---
JUL19	---	---	---	---	---	---	---	---	100	---	---	---
AUG19	---	---	---	---	---	---	---	---	100	---	---	---
SEP19	---	---	---	---	---	---	---	---	100	---	---	---
OCT19	---	---	---	---	---	---	---	---	5	---	---	---
NOV19	---	---	---	---	---	---	---	---	5	---	---	---
DEC19	---	---	---	---	---	---	---	---	5	---	---	---
									3891			
ETHANOL(PL) T2 FOB RTRDM INCL												
DEC18	---	---	---	---	---	---	---	---	40	---	---	---
JAN19	---	---	---	---	---	---	---	---	60	---	---	---
FEB19	---	---	---	---	---	---	---	---	100	---	---	---
MAR19	---	---	---	---	---	---	---	---	110	---	---	---
APR19	---	---	---	---	---	---	---	---	60	---	---	---
MAY19	---	---	---	---	---	---	---	---	60	---	---	---
JUN19	---	---	---	---	---	---	---	---	60	---	---	---
									490			
METHANOL T2 FOB RDAM (ICIS) FUTURES												
NEW YORK ETHANOL												
DEC18	---	---	---	---	---	---	---	---	10	---	---	---
									10			

ELECTRICITY EX-PIT BREAKDOWN

	DELIVERY CASH OR SETTLED	PHY MONTH- TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
AEP-DAYTON HUB DAILY												
CIN HUB 5MW D AH O PK												
CIN HUB 5MW D AH PK												
CIN HUB 5MW REAL TIME O PK												
CIN HUB 5MW REAL TIME PK												
CINERGY HUB OFF-PEAK MONTH												
CINERGY HUB PEAK MONTH												
GERMAN POWER BASELOAD CAL MONTH FUT												
ISO NEW ENG MASS HUB DA OP DAILY												
MIDWEST ISO MICHIGAN HUB 5MW PEAK C												
MISO INDIANA HUB 5MW OFPK CALDAY DA												
MISO INDIANA HUB 5MW OFPK CALDAY RT												
MISO INDIANA HUB 5MW PK CAL DAYHD												
MISO INDIANA HUB 5MW PK CAL-DAY RT												
MISO MICHIGAN HUB OF-PK DA MONTHLY												
N ILLINOIS HUB DAILY												
NEPOOL INTR HUB 5MW D AH O PK												
NEPOOL INTR HUB 5MW D AH PK												
NEPOOL NE MASS 5MW D AH O PK												
NEPOOL NE MASS 5MW D AH PK												
NEW ENGLAND HUB PEAK DAILY												
NEW YORK HUB ZONE G PEAK DAILY												

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DELIVERY----- CASH OR PHY MONTH- SETTLED TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL	TAS DAILY TOTAL
NYISO ZONE A 5MW D AH PK										
NYISO ZONE A DA OP DAILY										
NYISO ZONE A LBMP FUTURE										
NYISO ZONE F 5MW DAY AHEAD OFF-PEAK										
NYISO ZONE F 5MW DAY AHEAD PEAK										
NYISO ZONE G 5MW D AH O PK										
NYISO ZONE G 5MW D AH PK										
NYISO ZONE G DA OP DAILY										
NYISO ZONE J 5MW D AH O PK										
NYISO ZONE J 5MW D AH PK										
NYISO ZONE J DA OP DAILY										
PJM AD HUB 5MW REAL TIME O PK										
PJM AD HUB 5MW REAL TIME PK										
PJM AEP DAYTON HUB DA OP DAILY										
PJM AEP DAYTON HUB DA PEAK DAILY										
PJM AEP DAYTON HUB RT OP DAILY										
PJM BGE DA OFF-PEAK										
PJM BGE DA PEAK										
PJM COMED 5MW D AH O PK										
PJM COMED 5MW D AH PK										
PJM DAILY										
PJM DAYTON DA OFF-PEAK										
PJM DAYTON DA PEAK										
PJM METED ZONE OFFPK CAL LMP										
PJM METED ZONE PEAK CAL LMP										
PJM MONTHLY										
PJM NI HUB 5MW REAL TIME O PK										
PJM NI HUB 5MW REAL TIME PK										
PJM NILL DA OFF-PEAK										
PJM NILL DA PEAK										
PJM NORTERN ILL HUB DA OP DAILY										
PJM NORTERN ILL HUB DA PEAK DAILY										
PJM NORTERN ILL HUB RT OP DAILY										
PJM OFF-PEAK LMP FUTURE										
PJM PSEG DA OFF-PEAK										
PJM PSEG DA PEAK										
PJM WESTERN HUB DA OP DAILY FUT										
PJM WESTERN HUB DA PEAK DAILY										
PJM WESTERN HUB RT OP DAILY										
PJM WESTH DA OFF-PEAK										
PJM WESTH RT OFF-PEAK										
PJM WESTH RT PEAK										
PJM WESTHDA PEAK										

COAL EX-PIT BREAKDOWN

DELIVERY----- CASH OR PHY MONTH- SETTLED TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK DAILY TOTAL	TAS DAILY TOTAL
AUSTRALIAN COKING (PLATTS) LOW VOL									
COAL (ICI4) INDONESIAN COAL INDEX									
COAL API2 CIF ARA ARG-MCCLOSKEY									
DEC18	---	---	---	---	---	---	95	---	---
JAN19	---	---	---	---	---	---	137	---	---
FEB19	---	---	---	---	---	---	82	---	---
MAR19	---	---	---	---	---	---	112	---	---
APR19	---	---	---	---	---	---	67	---	---
MAY19	---	---	---	---	---	---	67	---	---
JUN19	---	---	---	---	---	---	67	---	---
JUL19	---	---	---	---	---	---	32	---	---
AUG19	---	---	---	---	---	---	32	---	---
SEP19	---	---	---	---	---	---	32	---	---
OCT19	---	---	---	---	---	---	39	---	---
NOV19	---	---	---	---	---	---	39	---	---
DEC19	---	---	---	---	---	---	39	---	---
JAN20	---	---	---	---	---	---	11	---	---
FEB20	---	---	---	---	---	---	11	---	---
MAR20	---	---	---	---	---	---	11	---	---
APR20	---	---	---	---	---	---	11	---	---
MAY20	---	---	---	---	---	---	11	---	---
JUN20	---	---	---	---	---	---	11	---	---
JUL20	---	---	---	---	---	---	11	---	---
AUG20	---	---	---	---	---	---	11	---	---
SEP20	---	---	---	---	---	---	11	---	---
OCT20	---	---	---	---	---	---	11	---	---
NOV20	---	---	---	---	---	---	11	---	---
DEC20	---	---	---	---	---	---	11	---	---
							972		
COAL API4 RCH BAY ARGS MCCLOSKEY SW									
NOV18	---	---	---	---	---	---	15	---	---
DEC18	---	---	---	---	---	---	10	---	---
APR19	---	---	---	---	---	---	5	---	---
MAY19	---	---	---	---	---	---	5	---	---
JUN19	---	---	---	---	---	---	5	---	---
							40		
COAL API5 FOB NEWCASTLE ARG/MC FUT									

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FREIGHT EX-PIT BREAKDOWN

DELIVERY----- CASH OR PHY MONTH- SETTLED TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK TAS DAILY TOTAL	TAS DAILY TOTAL
FREIGHT ROUTE LIQUID PETROLEUM GAS									
FREIGHT ROUTE TC14 (BALTIC) FUTURES									
FREIGHT ROUTE TD20 (BALTIC) FUTURES									
FREIGHT ROUTE TD3C (PLATTS) FUTURES									
FREIGHT ROUTE TD8 (BALTIC) FUTURES									
TC2 ROTTERDAM TO USAC 37K MT									
TC5 RAS TANURA TO YOKOHAMA 55K MT									
TD3 MEG TO JAPAN 250K MT									

PLASTICS EX-PIT BREAKDOWN

DELIVERY----- CASH OR PHY MONTH- SETTLED TO-DATE	EFP DAILY TOTALS	EFS DAILY TOTALS	SUBS DAILY TOTALS	EFM DAILY TOTALS	EFR DAILY TOTALS	EFB DAILY TOTALS	BLOCKS DAILY TOTAL	BLOCK TAS DAILY TOTAL	TAS DAILY TOTAL
PGP POLYMER GRD PROPYLENE CAL									

TRADE AT MARKER PRODUCTS

			VOLUME	BLOCK VOL	MARKER PRICE
BZL	BZL	BRENT CRUDE TAM LONDON			
JAN19			----	----	67.64
FEB19			----	----	67.87
MAR19			----	----	68.01
TOTAL	BRENT CRUDE TAM LONDON		----	----	
BZS	BZS	BRENT CRUDE TAM SINGAPORE			
JAN19			----	----	67.64
FEB19			----	----	67.87
MAR19			----	----	68.01
TOTAL	BRENT CRUDE TAM SINGAPORE		----	----	
CLL	CLL	CRUDE OIL TRADE AT MARKER LONDON			
DEC18			----	----	57.28
JAN19			----	----	57.50
FEB19			----	----	57.71
TOTAL	CRUDE OIL TRADE AT MARKER LONDON		----	----	
CLS	CLS	CRUDE OIL TRADE AT MARKER SINGAPORE			
DEC18			----	----	57.28
JAN19			----	----	57.50
FEB19			----	----	57.71
TOTAL	CRUDE OIL TRADE AT MARKER SINGAPORE		----	----	
HOL	HOL	HEATING OIL TAM AT LONDON			
DEC18			----	----	2.0769
JAN19			----	----	2.0701
FEB19			----	----	2.0613
TOTAL	HEATING OIL TAM AT LONDON		----	----	
RBL	RBL	RBOB GASOLINE TAM LONDON			
DEC18			----	----	1.5809
JAN19			----	----	1.5716
FEB19			----	----	1.5777
TOTAL	RBOB GASOLINE TAM LONDON		----	----	