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BANKS AND THE JEANNE D'ARC BASIN, OFFSHORE NEWFOUNDLAND**

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GSC Project Number 243-7654**

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SOUTHERN GRAND BANKS AND THE JEANNE D'ARC BASIN,  
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This Open File Report contains raw data from Rock-Eval type analysis of samples from six wells located in basins on the Southern Grand Banks and from two wells located within the Jeanne d'Arc Basin. Rock-Eval data has previously been reported for several other Jeanne d'Arc Basin wells (Snowdon and Fowler, 1986; Fowler and Snowdon, 1988). As before, there has been no attempt to remove spurious results and caution must especially be advised in giving credence to parameters such as Hydrogen Indices and Tmax values from those sample with low TOC values. Depths of the samples have been reported in the units in which the wells were originally drilled and logged. In this report, only samples from Bonanza M-71 are reported in metres, with the others all being in feet.

This report contains the first published data from Rock-Eval/TOC type analysis of wells drilled on the Southern Grand Banks. The wells are **Bittern M-62** drilled in the Horseshoe Basin, **Bonniton H-32** and **Skua E-41** drilled in the Carson Basin, **Eider M-75** and **Grand Falls H-09** drilled in the Whale Basin and **Heron H-73** drilled in the South Whale Basin.

From a source rock perspective, the results for these wells are very disappointing. Almost all the samples have low TOC (<1%) and low Hydrogen Index (HI) values. Hence, there is no evidence for an interval such as the Egret Member of the Jeanne d'Arc Basin that is able to generate significant quantities of hydrocarbons in any of these basins. Also, because the S2 values for most of the samples are very low, caution is needed when using the Tmax values as maturity measurements.

**Bittern M-62** is the only well that has been drilled in the Horseshoe Basin. Almost every sample from this well has a TOC value of less than 1% and very low HI values indicating no potential for hydrocarbon generation. One apparent exception is the sample from a depth of 9270 ft (2825.5 m)., which has a high TOC (4.70%) and a relatively high HI value (301). However, the very low Tmax

value for this sample suggests contamination, although nothing untoward is indicated in the drilling reports as having occurred at this depth. There are a few other odd samples such as this. The only extended interval with relatively high TOC values (between 1-2%) is from 10,650 to 11,040 ft (3246.1 - 3365.0 m). The HI values for these samples are very low which is not surprising considering their Tmax values indicate the organic matter is overmature. Hence, the possibility that this interval could once have had some potential to generate significant quantities of hydrocarbons cannot be ruled out. The Tmax values show a reasonable maturity trend with depth. Organic matter in this well is mature at 4000 ft (1219 m) (0.7% Ro), and by 8000 ft (2438 m) is reaching overmaturity. The high PI (S1/S1 + S2) values that occur throughout the well are due to the very low S2 values rather than to bitumen staining.

Samples from the two wells drilled in the Carson Basin, **Bonniton H-32** and **Skua E-41** show very low TOC and HI values throughout almost their entire length. Around 4110-4230 ft (1252.7 - 1289.3 m) in the Bonniton well, and around 2680-2950 ft (816.9 - 899.2 m) in the Skua well, there are samples with TOC values above 1%. However, these have very low HI values and therefore no potential to generate economically interesting amounts of oil. As the samples from these intervals in Skua and Bonniton are immature and mature respectively, it is almost certain that they also had no potential for generating hydrocarbons in the past. Because of the very low S2 values, the Tmax values obtained for samples from these wells must be used with caution. However, it does appear that organic matter in the Bonniton well is significantly more mature than that from Skua at the same depth until about 8200 ft (2499.4 m). Over the depth range of the samples analysed, those from Bonniton range from mature to overmature by around 7000 ft (2133.6 m) and then back to mature at around 8200 ft (2499.4 m). It is not possible to say if this decrease in maturity is a real phenomenon at present. The samples from Skua reach maturity in the vicinity of 4000 ft (1219.2 m) and are approaching overmaturity at the bottom of the well.

**Eider M-75** and the nearby **Grand Falls H-09** were drilled in the Whale Basin. Samples from depths of 5690 to 6600 ft (1734.3 - 2011.7 m) are missing from Eider. In the Eider well there are some relatively high TOC values in the Cretaceous section. However, these samples have very low HI

values despite being immature and hence have no potential to generate oil. The rest of the samples from both wells have very low TOC and HI values, except for some at the bottom of the Eider well (11430 - 11580 ft; 3483.9 - 3529.6 m) which may have the potential to generate a limited quantity of gas. Organic matter is mature by a depth of 6600 ft (2011.7 m) in Eider. It is probably mature at shallower depths but because of low S2 values and missing samples it is not possible to be any more specific. Organic matter is approaching overmaturity at the bottom of the well. The Tmax values obtained from the Grand Falls samples are mostly useless, again because of very low S2 values. A few that may be reliable suggest the organic matter is early mature to mature.

The only basin in the southern Grand Banks area in which hydrocarbon~~s~~ shows have been encountered is the South Whale Basin. Twenty-two barrels of 7°API oil were recovered from a DST from the Upper Cretaceous Petrel Limestone at a depth of 7525-7565 ft. (2293.6 - 2305.8 m) from the **Heron H-73** well. Oil shows were observed from other parts of this well, most of which were believed by Amoco to be the result of contamination by diesel during the drilling operations. High PI (S1/S1 + S2) values are observed in the results of the Rock-Eval analysis of samples from this well between 6900 and 10,000 ft (2103.1 - 3048.0 m) which includes the Petrel Limestone. The geochemical characteristics of the oil obtained from the Petrel Limestone suggest it could be indigenously sourced. However, there is no support for this or for a source rock anywhere else in the well. Many samples from the Tertiary section of this well have TOC values between 1% and 2% but with very low HI values and would have no potential to generate significant quantities of hydrocarbons even if they were mature. There are also some samples in the Jurassic section, around 10,780 to 10,960 f (3285-7 - 3340.6 m). that have TOC values of between 1% to 2% TOC with again low HI values.

The Tmax values show a fairly good trend with depth. The organic matter which is immature in the Tertiary and Cretaceous sections, reaches maturity ( $\approx 0.7\%$  Ro) in the Jurassic section around 10,100 ft (3078.5 m). Particularly in the lower part of the well, the Tmax values indicate a lower maturity for organic matter than the results of vitrinite reflectance measurements made by Avery (1989). His results indicate an Ro of 0.8% is reached around 8612 ft (2624.9 m) and of 1.3%Ro around

11,659 ft (3553.7 m). This discrepancy could be due to the low S2 values providing misleading Tmax values although such a good trend with depth would not be expected if this was the case. Alternately, inspection of the data published by Avery shows a wide range of Ro values for samples below 10,000 ft (3048.0 m). If the maturity gradient was drawn through the lower range of Ro values rather than the higher ones selected by Avery to be the true maturity of the organic matter, there would be a closer agreement with the Rock-Eval results, although the Ro results would still indicate a slightly higher maturity for any given depth.

Samples from two more wells drilled in the Jeanne d'Arc Basin have also been analysed by Rock-Eval type analysis since our previous Open File Report was released (Fowler and Snowdon, 1988). The wells are **Flying Foam I-13** and **Bonanza M-71**.

Although the sample coverage is poor, the Kimmeridgian-aged Egret Member source rock observed in some wells in the Jeanne d'Arc Basin (Snowdon and Fowler, 1986; Fowler and Snowdon, 1988) also appears to be present in **Flying Foam I-13**. The Rock-Eval results indicate that there are two organic-rich sections which occur between 10520 - 11160 ft (3206.5 - 3401.6 m) and 11370-11820 ft (3465.6 - 3602.7 m). The upper section appears to have the most potential for generating hydrocarbons as it shows higher HI values indicating that it has Type II organic matter. The deeper section shows lower HI values and very high OI values. It has possibly Type III organic matter with the anomalous OI value due to inorganic effects (eg. labile carbonates). It should be noted that the top for the Upper Jurassic (from the Digitech Data Base) lies below the upper organic-rich horizon. The organic matter of these potential sources is early mature and has not yet generated significant volumes of hydrocarbons. These results appear to be similar to those of Creaney and Allison (1987) for this well.

The Rock-Eval results for Bonanza M-71 indicate that there is no extensive interval in this well that has generated, or has the potential to generate, significant quantities of hydrocarbons, i.e. no source rock equivalent to the Egret Member was penetrated.

Most of the Tertiary section in Bonanza M-71 show fairly high TOC values (1-2%) but this organic matter has low HI (<200) and high OI values indicating that it has very little potential to generate

hydrocarbons. There is a gradual increase in Tmax values through the Tertiary section with the organic matter ranging from immature at 1200 m to mature at the Tertiary/Upper Cretaceous boundary. Between the tops provided for the Tertiary/Upper Cretaceous boundary and the Upper Cretaceous unconformity, there is one apparently interesting sample at a depth of 3430 m, with a reasonable TOC (2.02%) and a HI value indicating it to be Type II organic matter. However, the very low Tmax value makes one suspicious of this sample and it is probably significant that according to the well history report, this was the depth where the tool separated leading to some "fishing operations".

The rest of the Cretaceous generally shows very low organic content although at a depth of 3690 m a TOC of 2.80% was obtained with HI and Tmax values indicating an interval of probable mature Type II organic matter. The Tmax continues to show a steady increase until around 4500 m where the organic matter is late mature. Until this depth the Rock-Eval results indicate a similar trend to the vitrinite reflectance results of Avery (1986).

Below about 4500 m, the Rock-Eval results fluctuate widely, showing some samples with very high TOC values (<10%), but with low HI and Tmax values. This is probably the result of contamination by drilling additives. According to the well history report, at 4489 m the mud type was changed and lignite was amongst the materials used for subsequent drilling.

Table 1 contains the standard measured Rock-Eval parameters (Espitalie et al., 1977, 1985) as well as several derived parameters:

TOC = total organic carbon reported as percent by weight of the whole rock,

Tmax = temperature (°C) at the top of the S2 peak,

S1 = hydrocarbons evolved (distilled or thermovaporized) at 300°C (mg hydrocarbon per g rock),

S2 = hydrocarbons evolved during heating at 25°C/min between 300°C and 600°C,

S3 = organic carbon dioxide evolved at 300°C and up to 390°C,

PI = Production Index =  $S1/(S1-S2)$ ,

HI = Hydrogen Index =  $S2/TOC$ ; and

OI = Oxygen Index =  $S3/TOC$ .

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Amoco Imperial Bittern M-62

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
15670F	.11	.00	.01	0	.00	.01	.22	9	200
15640	.07	.00	.01	0	.00	.01	.14	14	200
15610	.20	.43	.07	362	.03	.04	.16	20	80
15580	.19	1.00	.03	0	.03	.00	.21	0	110
15550	.22	1.00	.01	0	.01	.00	.20	0	90
15520	.72	.29	.35	449	.10	.25	.31	34	43
15490	.11	.20	.05	310	.01	.04	.19	36	172
15460	.19	1.00	.01	0	.01	.00	.46	0	242
15430	1.06	.56	1.28	388	.72	.56	2.71	52	255
15400	.81	.48	.77	348	.37	.40	2.18	49	269
15370	.72	.65	.48	401	.31	.17	1.87	23	259
15340	.51	.41	.22	362	.09	.13	.82	25	160
15310	.48	1.00	.03	0	.03	.00	.71	0	147
15280	.83	.73	.62	0	.45	.17	1.58	20	190
15250	.61	.78	.36	339	.28	.08	1.46	13	239
15220	.61	.77	.26	314	.20	.06	.93	9	152
15190	1.43	.73	2.68	336	1.95	.73	2.69	51	188
15160	1.54	.76	3.03	351	2.29	.74	2.97	48	192
15130	.50	.78	.18	301	.14	.04	.71	8	142
15100	.56	1.00	.09	0	.09	.00	.69	0	123
15070	.40	.67	.09	304	.06	.03	.43	7	107
15040	.50	.57	.14	359	.08	.06	.42	12	84
15010	.63	1.00	.09	0	.09	.00	.65	0	103
14980	.41	.78	.09	328	.07	.02	.60	4	146
14950	.59	.81	.16	308	.13	.03	.95	5	161
14920	.54	.44	.18	375	.08	.10	.45	18	83
14890	.40	1.00	.08	0	.08	.00	.42	0	105
14860	.53	.54	.26	313	.14	.12	.56	22	105
14830	.53	.57	.23	384	.13	.10	.67	18	126
14800	.59	.90	.10	367	.09	.01	.64	1	108
14770	.39	1.00	.07	0	.07	.00	.35	0	89
14740	.22	.57	.07	362	.04	.03	.20	13	90
14710	.66	.43	.54	425	.23	.31	1.51	46	228
14680	.40	.33	.27	400	.09	.18	.99	45	247
14650	.54	.30	.63	435	.19	.44	1.18	81	218
14610	.82	.56	.84	398	.47	.37	2.42	45	295
14590	.39	1.00	.05	0	.05	.00	.78	0	200
14560	.38	1.00	.07	0	.07	.00	.91	0	239
14520	.36	.58	.12	311	.07	.05	.92	13	255
14490	.26	.67	.06	368	.04	.02	.30	7	115
14460	.27	1.00	.03	0	.03	.00	.51	0	188
14430	.39	1.00	.07	0	.07	.00	.59	0	151
14400	.21	.57	.07	353	.04	.03	.22	14	104
14370	.32	1.00	.03	0	.03	.00	.33	0	103
14340	.34	.36	.11	349	.04	.07	.50	20	147
14310	.38	1.00	.04	0	.04	.00	.36	0	94
14280	.40	.55	.11	373	.06	.05	.34	12	85
14250	.29	.44	.09	373	.04	.05	.26	17	89
14220	.24	1.00	.02	0	.02	.00	.25	0	104
14190	.32	1.00	.04	0	.04	.00	.34	0	106
14160	.33	1.00	.07	0	.07	.00	.57	0	172

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
14130	.21	1.00	.02	0	.02	.00	.32	0	152
14100	.30	1.00	.04	0	.04	.00	.36	0	120
14070	.36	.67	.09	341	.06	.03	.74	8	205
14040	.75	.71	1.16	314	.82	.34	1.61	45	214
14010	.38	1.00	.06	0	.06	.00	.80	0	210
13980	.30	1.00	.03	0	.03	.00	.57	0	190
13950	1.35	.77	3.93	335	3.04	.89	2.71	65	200
13920	.32	1.00	.04	0	.04	.00	.50	0	156
13890	.23	.67	.03	344	.02	.01	.21	4	91
13860	.29	1.00	.03	0	.03	.00	.28	0	96
13830	.32	.63	.19	331	.12	.07	.28	21	87
13800	.26	.79	.19	306	.15	.04	.23	15	88
13770	.29	.82	.11	355	.09	.02	.28	6	96
13740	.28	.85	.13	314	.11	.02	.23	7	82
13710	.24	1.00	.06	0	.06	.00	.22	0	91
13680	.30	1.00	.08	0	.08	.00	.21	0	70
13650	.26	1.00	.07	0	.07	.00	.21	0	80
13620	.25	1.00	.08	0	.08	.00	.18	0	72
13590	.30	1.00	.07	0	.07	.00	.31	0	103
13560	.32	.50	.18	353	.09	.09	.29	28	90
13530	.34	1.00	.06	0	.06	.00	.41	0	120
13500	.28	1.00	.05	0	.05	.00	.36	0	128
13470	.27	1.00	.10	0	.10	.00	.18	0	66
13440	.40	.95	.20	0	.19	.01	.25	2	62
13410	.33	.95	.19	0	.18	.01	.20	3	60
13380	.36	.86	.14	314	.12	.02	.18	5	50
13350	.42	.79	.34	339	.27	.07	.21	16	50
13320	.36	.67	.09	326	.06	.03	.20	8	55
13320	.38	1.00	.16	0	.16	.00	.21	0	55
13290	.60	1.00	.10	0	.10	.00	.38	0	63
13260	.59	.53	.19	374	.10	.09	.25	15	42
13230	.66	.77	.26	314	.20	.06	.33	9	50
13200	.75	1.00	.19	0	.19	.00	.26	0	34
13170	.93	.78	.09	356	.07	.02	.31	2	33
13140	.79	.67	.24	375	.16	.08	.31	10	39
13111	.80	1.00	.15	0	.15	.00	.33	0	41
13080	.97	.79	.38	377	.30	.08	.36	8	37
13050	.70	.71	.31	314	.22	.09	.28	12	39
13020	.59	1.00	.12	0	.12	.00	.25	0	42
12990	.62	1.00	.29	0	.29	.00	.31	0	50
12960	.65	.58	.31	359	.18	.13	.60	20	92
12930	.68	.89	.27	312	.24	.03	.36	4	52
12900	.56	.74	.23	366	.17	.06	.27	10	48
12870	2.80	.06	2.85	425	.18	2.67	.52	95	18
12870	.73	.72	.25	433	.18	.07	.32	9	43
12840	.30	.60	.15	336	.09	.06	.20	20	66
12840	.28	.06	3.08	425	.20	2.88	.52	1028	185
12810	.25	1.00	.06	0	.06	.00	.18	0	72
12780	.23	1.00	.10	0	.10	.00	.26	0	113
12750	.23	1.00	.08	0	.08	.00	.18	0	78
12720	.28	.83	.23	383	.19	.04	.21	14	75
12690	.30	.94	.18	302	.17	.01	.18	3	60
12660	.25	1.00	.17	0	.17	.00	.27	0	108
12630	.26	.85	.26	329	.22	.04	.18	15	69
12600	.24	1.00	.18	0	.18	.00	.18	0	75

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
12570	.31	1.00	.06	0	.06	.00	.30	0	96
12540	.26	.92	.12	313	.11	.01	.19	3	73
12510	.32	1.00	.01	0	.01	.00	.20	0	62
12480	.22	1.00	.04	0	.04	.00	.16	0	72
12450	.17	1.00	.02	0	.02	.00	.19	0	111
12420	.28	.38	.08	373	.03	.05	.32	17	114
12390	.19	1.00	.03	0	.03	.00	.23	0	121
12360	.19	1.00	.01	0	.01	.00	.19	0	100
12330	.22	.57	.07	422	.04	.03	.22	13	100
12300	.21	.71	.07	305	.05	.02	.20	9	95
12270	.23	1.00	.05	0	.05	.00	.15	0	65
12240	.25	1.00	.03	0	.03	.00	.29	0	116
12210	.24	1.00	.05	0	.05	.00	.24	0	100
12180	.21	1.00	.07	0	.07	.00	.16	0	76
12150	.23	.57	.14	398	.08	.06	.17	26	73
12120	.21	.64	.11	395	.07	.04	.15	19	71
12090	.20	.75	.08	358	.06	.02	.15	10	75
12060	.17	.71	.07	333	.05	.02	.13	11	76
12030	.21	.71	.07	333	.05	.02	.17	9	80
12000	.20	1.00	.04	0	.04	.00	.14	0	70
11970	.17	1.00	.04	0	.04	.00	.14	0	82
11940	.18	.80	.05	353	.04	.01	.27	5	150
11910	.17	.50	.08	341	.04	.04	.17	23	100
11880	.15	1.00	.03	0	.03	.00	.19	0	126
11850	.20	1.00	.05	0	.05	.00	.17	0	85
11820	.22	1.00	.04	0	.04	.00	.22	0	100
11790	.25	1.00	.05	0	.05	.00	.16	0	64
11760	.27	1.00	.03	0	.03	.00	.19	0	70
11730	.25	1.00	.03	0	.03	.00	.22	0	88
11700	.27	.46	.13	342	.06	.07	.23	25	85
11670	.25	.75	.08	313	.06	.02	.31	8	124
11640	.24	1.00	.05	0	.05	.00	.33	0	137
11610	.26	1.00	.06	0	.06	.00	.33	0	126
11580	.26	.73	.11	339	.08	.03	.25	11	96
11550	.24	1.00	.04	0	.04	.00	.17	0	70
11520	.29	1.00	.04	0	.04	.00	.28	0	96
11490	.35	.63	.08	362	.05	.03	.24	8	68
11460	.32	.48	.21	398	.10	.11	.24	34	75
11430	.36	1.00	.08	0	.08	.00	.47	0	130
11400	.42	.69	.13	310	.09	.04	.36	9	85
11370	.56	.55	.20	386	.11	.09	.49	16	87
11340	.54	.39	.38	405	.15	.23	.51	42	94
11310	.67	.71	.14	387	.10	.04	.33	5	49
11280	.60	.40	.20	409	.08	.12	.30	20	50
11250	.67	.38	.37	409	.14	.23	.36	34	53
11220	.80	.41	.39	469	.16	.23	.57	28	71
11190	.68	.42	.31	469	.13	.18	.39	26	57
11160	.71	.50	.22	425	.11	.11	.35	15	49
11130	.88	.44	.41	460	.18	.23	.42	26	47
11100	.73	.36	.25	479	.09	.16	.38	21	52
11070	.78	.38	.29	470	.11	.18	.41	23	52
11040	1.31	.52	1.65	400	.86	.79	.97	60	74
11010	.99	.36	.50	480	.18	.32	.50	32	50
10980	1.15	.35	.49	481	.17	.32	.49	27	42
10950	1.35	.45	.42	471	.19	.23	.58	17	42

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
10920	1.41	.32	.65	470	.21	.44	.59	31	41
10890	1.22	.27	.55	471	.15	.40	.55	32	45
10860	1.03	.32	.38	491	.12	.26	.38	25	36
10830	1.21	.32	.50	468	.16	.34	.45	28	37
10800	1.22	.47	.47	461	.22	.25	.40	20	32
10770	1.67	.37	.83	464	.31	.52	.49	31	29
10740	1.38	.40	.65	462	.26	.39	.50	28	36
10710	1.34	.36	.66	463	.24	.42	.64	31	47
10680	1.67	.42	.83	466	.35	.48	.65	28	38
10650	.87	.50	.18	463	.09	.09	.40	10	45
10650	2.13	.47	1.28	462	.60	.68	.59	31	27
10620	.88	.35	.43	470	.15	.28	.46	31	52
10590	.77	.39	.28	475	.11	.17	.60	22	77
10530	.88	.36	.36	475	.13	.23	.48	26	54
10500	1.03	.36	.50	473	.18	.32	.56	31	54
10470	.89	.44	.27	461	.12	.15	.42	16	47
10440	.79	.40	.47	467	.19	.28	.51	35	64
10410	.84	.46	.24	476	.11	.13	.52	15	61
10380	.80	.52	.27	467	.14	.13	.63	16	78
10350	.72	.45	.40	466	.18	.22	.57	30	79
10320	1.58	.68	5.89	388	4.00	1.89	1.21	119	76
10290	.81	.56	.39	459	.22	.17	.61	20	75
10260	.84	.56	.36	466	.20	.16	.56	19	66
10230	.86	.44	.57	467	.25	.32	.46	37	53
10200	.97	.48	.86	456	.41	.45	.57	46	58
10170	1.06	.61	1.50	415	.91	.59	.74	55	69
10140	1.57	.59	4.09	404	2.42	1.67	1.46	106	92
10110	.85	.54	.28	462	.15	.13	.46	15	54
10080	.67	.54	.24	454	.13	.11	.59	16	88
10050	.97	.58	1.32	401	.76	.56	1.07	57	110
10020	2.02	.64	9.27	397	5.90	3.37	1.91	166	94
9990	.90	.53	2.03	375	1.08	.95	1.23	105	136
9960	.60	.59	.49	378	.29	.20	.58	33	96
9930	.54	.40	.25	449	.10	.15	.37	27	68
9900	.58	.46	.13	444	.06	.07	.33	12	56
9870	.71	.33	.15	443	.05	.10	.20	14	28
9840	.48	.67	.03	360	.02	.01	.14	2	29
9810	.31	.43	.07	310	.03	.04	.18	12	58
9780	.29	1.00	.02	0	.02	.00	.15	0	51
9750	1.13	.44	5.38	446	2.37	3.01	1.10	266	97
9720	.33	.64	.25	407	.16	.09	.36	27	109
9690	.35	.59	.32	386	.19	.13	.33	37	94
9660	.46	.31	.16	438	.05	.11	.38	23	82
9630	.53	.43	.90	442	.39	.51	.51	96	96
9600	.23	1.00	.02	0	.02	.00	.17	0	73
9570	.32	.44	.16	436	.07	.09	.31	28	96
9540	.30	.60	.10	391	.06	.04	.36	13	120
9510	.33	.50	.06	311	.03	.03	.32	9	96
9480	.33	.44	.54	401	.24	.30	.34	90	103
9450	.25	.56	.09	406	.05	.04	.26	16	104
9420	.33	.53	.15	325	.08	.07	.35	21	106
9390	.56	.54	1.53	406	.82	.71	.73	126	130
9360	.65	.35	2.60	449	.92	1.68	.56	258	86
9330	.62	.50	1.69	422	.85	.84	.91	135	146
9300	1.52	.57	7.29	398	4.17	3.12	2.54	205	167

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
9270	4.70	.60	35.12	402	20.96	14.16	4.40	301	93
9240	.51	.54	.13	346	.07	.06	.86	11	168
9210	.40	.38	.42	434	.16	.26	.50	65	125
9180	.47	1.00	.07	0	.07	.00	.69	0	146
9150	.52	.59	.17	347	.10	.07	.66	13	126
9120	.50	.56	.09	354	.05	.04	.60	8	120
9080	.56	.69	.13	350	.09	.04	.74	7	132
9050	.67	.52	.23	451	.12	.11	.74	16	110
9020	.81	.60	2.48	429	1.48	1.00	1.36	123	167
8990	.60	.44	.16	451	.07	.09	.34	15	56
8960	.51	.33	.18	448	.06	.12	.32	23	62
8930	.49	.24	.29	444	.07	.22	.31	44	63
8900	.44	.21	.24	443	.05	.19	.27	43	61
8870	.44	.27	.11	444	.03	.08	.37	18	84
8840	.43	.26	.19	440	.05	.14	.32	32	74
8810	.42	.30	.10	441	.03	.07	.36	16	85
8780	.41	.37	.19	435	.07	.12	.45	29	109
8750	.33	.40	.10	441	.04	.06	.29	18	87
8720	.43	.37	.19	445	.07	.12	.44	27	102
8690	.38	.33	.21	444	.07	.14	.25	36	65
8660	.40	.36	.22	449	.08	.14	.29	35	72
8600	.47	.27	.15	440	.04	.11	.47	23	100
8570	.40	.37	.27	443	.10	.17	.33	42	82
8540	.39	.42	.24	444	.10	.14	.31	35	79
8510	.47	.31	.32	441	.10	.22	.34	46	72
8480	.50	.24	.38	447	.09	.29	.39	58	78
8450	.52	.26	.34	448	.09	.25	.40	48	76
8420	.47	.26	.27	448	.07	.20	.44	42	93
8390	.53	.29	.31	445	.09	.22	.34	41	64
8360	.48	.26	.31	433	.08	.23	.40	47	83
8330	.45	.23	.30	446	.07	.23	.42	51	93
8300	.44	.29	.35	443	.10	.25	.29	56	65
8270	.53	.29	.35	443	.10	.25	.32	47	60
8240	.42	.29	.41	438	.12	.29	.30	69	71
8210	.44	.30	.27	446	.08	.19	.36	43	81
8180	.47	.23	.13	442	.03	.10	.60	21	127
8150	.49	.25	.32	449	.08	.24	.35	48	71
8120	.42	.19	.31	440	.06	.25	.37	59	88
8090	.39	.21	.24	443	.05	.19	.41	48	105
8060	.48	.19	.21	444	.04	.17	.58	35	120
8030	.53	.23	.30	429	.07	.23	.61	43	115
8000	.36	.16	.56	443	.09	.47	.24	130	66
7970	.42	.19	.36	447	.07	.29	.22	69	52
7940	.31	.46	.13	443	.06	.07	.27	22	87
7910	.43	.38	.16	440	.06	.10	.26	23	60
7880	.40	.27	.26	438	.07	.19	.22	47	55
7850	.34	.32	.25	439	.08	.17	.17	50	50
7820	.44	.29	.17	441	.05	.12	.18	27	40
7790	.47	.40	.30	446	.12	.18	.30	38	63
7760	.41	.29	.24	437	.07	.17	.27	41	65
7730	.39	.25	.24	439	.06	.18	.24	46	61
7700	.33	.25	.20	443	.05	.15	.21	45	63
7390	.36	.26	.27	439	.07	.20	.18	55	50
7360	.39	.25	.28	442	.07	.21	.28	53	71
7330	.49	.30	.54	443	.16	.38	.26	77	53

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
7300	.50	.28	.58	437	.16	.42	.29	84	58
7270	.51	.25	.53	446	.13	.40	.29	78	56
7240	.49	.22	.59	441	.13	.46	.29	93	59
7210	.49	.42	.31	436	.13	.18	.35	36	71
7180	.44	.30	.30	437	.09	.21	.29	47	65
7150	.36	.44	.25	433	.11	.14	.38	38	105
7120	.39	.37	.30	441	.11	.19	.39	48	100
7090	.33	.19	.16	438	.03	.13	.29	39	87
7060	.33	.22	.40	440	.09	.31	.27	93	81
7030	.69	.31	.29	442	.09	.20	.28	28	40
7000	.04	.14	.07	450	.01	.06	.23	150	575
6970	.43	.19	.32	440	.06	.26	.29	60	67
6940	.41	.29	.48	438	.14	.34	.48	82	117
6910	.39	.27	.33	440	.09	.24	.51	61	130
6880	.37	.21	.19	437	.04	.15	.50	40	135
6850	.55	.24	.17	435	.04	.13	.79	23	143
6820	.45	.20	.25	429	.05	.20	.65	44	144
6790	.39	.36	.22	435	.08	.14	.82	35	210
6760	.35	.29	.28	432	.08	.20	.54	57	154
6730	.31	.30	.23	437	.07	.16	.44	51	141
6700	.27	.29	.24	439	.07	.17	.40	62	148
6670	.29	.37	.30	439	.11	.19	.39	65	134
6640	.26	.35	.23	440	.08	.15	.34	57	130
6610	.25	.17	.18	437	.03	.15	.28	60	111
6580	.33	.17	.18	437	.03	.15	.23	45	69
6550	.34	.29	.38	442	.11	.27	.32	79	94
6520	.34	.21	.19	439	.04	.15	.25	44	73
6490	.36	.20	.25	438	.05	.20	.32	55	88
6460	.44	.20	.35	437	.07	.28	.30	63	68
6430	.40	.20	.30	443	.06	.24	.23	60	57
6400	.43	.15	.34	435	.05	.29	.28	67	65
6370	.42	.16	.19	437	.03	.16	.46	38	109
6340	.36	.10	.10	436	.01	.09	.35	25	97
6310	.48	.18	.17	438	.03	.14	.45	29	93
6280	.41	.36	.14	433	.05	.09	.48	21	117
6250	.41	.43	.30	436	.13	.17	.26	41	63
6220	.32	.43	.14	437	.06	.08	.25	25	78
6190	.39	.29	.31	435	.09	.22	.27	56	69
6160	.40	.21	.33	437	.07	.26	.23	65	57
6130	.33	.24	.21	439	.05	.16	.23	48	69
6100	.35	.32	.31	437	.10	.21	.27	59	77
6070	.46	.31	.42	437	.13	.29	.24	63	52
6040	.36	.31	.13	438	.04	.09	.22	25	61
6010	.31	.16	.25	440	.04	.21	.25	67	80
5980	.31	.00	.05	439	.00	.05	.18	16	58
5950	.35	.44	.18	436	.08	.10	.27	28	77
5920	.33	.22	.09	444	.02	.07	.26	21	78
5890	.36	.20	.05	437	.01	.04	.24	11	66
5860	.39	.13	.15	454	.02	.13	.24	33	61
5830	.42	.15	.20	433	.03	.17	.27	40	64
5800	.48	.35	.17	435	.06	.11	.40	22	83
5770	.45	.29	.21	438	.06	.15	.35	33	77
5740	.52	.20	.10	432	.02	.08	.54	15	103
5710	.42	.17	.23	440	.04	.19	.49	45	116
5680	.44	.21	.24	438	.05	.19	.39	43	88

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
5650	.42	.41	.29	442	.12	.17	.43	40	102
5620	.33	.00	.02	416	.00	.02	.35	6	106
5590	.38	.15	.13	411	.02	.11	.36	28	94
5560	.31	.09	.11	437	.01	.10	.28	32	90
5530	.31	.00	.01	0	.00	.01	.36	3	116
5500	.25	.00	.03	332	.00	.03	.46	12	184
5470	.35	.46	.13	367	.06	.07	.40	19	114
5440	.02	.41	.27	437	.11	.16	.41	8002	050
5410	.60	.67	.27	433	.18	.09	.51	15	85
5380	.42	.57	.53	401	.30	.23	.42	54	100
5350	.34	.43	.21	424	.09	.12	.50	35	147
5320	.29	.67	.03	435	.02	.01	.40	3	137
5290	.33	.47	.15	427	.07	.08	.43	24	130
5260	.41	.56	.70	395	.39	.31	.54	75	131
5230	.33	.58	.50	393	.29	.21	.47	63	142
5200	.28	.20	.05	385	.01	.04	.45	14	160
5170	.44	.55	.55	395	.30	.25	.60	56	136
5140	.47	.57	.35	421	.20	.15	.68	31	144
5110	.45	.69	.80	379	.55	.25	.62	55	137
5080	.33	.50	.20	429	.10	.10	.48	30	145
5050	.56	.54	.35	428	.19	.16	.86	28	153
5020	.47	.40	.35	429	.14	.21	.77	44	163
4990	.45	.68	.60	399	.41	.19	.69	42	153
4960	.37	.61	.33	417	.20	.13	.57	35	154
4930	.39	.69	.35	403	.24	.11	.76	28	194
4900	.31	1.00	.01	0	.01	.00	.78	0	251
4870	.30	.87	.23	344	.20	.03	.67	10	223
4840	.36	.77	.13	310	.10	.03	.62	8	172
4810	.38	.79	.14	403	.11	.03	.55	7	144
4780	.34	.79	.14	399	.11	.03	.58	8	170
4750	.42	.64	.28	428	.18	.10	.55	23	130
4720	.46	.20	.10	436	.02	.08	.72	17	156
4690	.52	.27	.30	429	.08	.22	.76	42	146
4660	.63	.31	.51	433	.16	.35	.81	55	128
4630	.57	.20	.30	436	.06	.24	.86	42	150
4600	.51	.13	.23	433	.03	.20	1.00	39	196
4570	.64	.38	.24	434	.09	.15	1.10	23	171
4540	.56	.29	.17	438	.05	.12	.80	21	142
4510	.60	.41	.34	429	.14	.20	.86	33	143
4480	.56	.42	.33	431	.14	.19	.76	33	135
4450	.69	.39	.57	426	.22	.35	.68	50	98
4420	.53	.38	.39	428	.15	.24	.82	45	154
4390	.52	.30	.30	433	.09	.21	.66	40	126
4360	.54	.51	.77	390	.39	.38	.74	70	137
4330	.50	.43	.30	429	.13	.17	.76	34	152
4300	.42	.46	.37	416	.17	.20	.49	47	116
4270	.40	.55	.62	396	.34	.28	.41	70	102
4240	.39	.55	.69	390	.38	.31	.45	79	115
4210	.63	.62	1.70	362	1.06	.64	.53	101	84
4180	.52	.36	.36	428	.13	.23	.56	44	107
4150	.73	.44	.55	434	.24	.31	.64	42	87
4120	.83	.61	1.32	392	.80	.52	.69	62	83
4090	.63	.45	.44	431	.20	.24	.57	38	90
4060	.55	.39	.36	435	.14	.22	.58	40	105
4030	.61	.36	.44	432	.16	.28	.71	45	116

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4000	.64	.17	.23	430	.04	.19	.72	29	112
3970	.64	.33	.18	427	.06	.12	.69	18	107
3940	.62	.35	.26	421	.09	.17	.62	27	100
3910	.61	.30	.20	424	.06	.14	.61	22	100
3880	.50	.56	.18	417	.10	.08	.58	16	116
3850	.53	.56	.09	361	.05	.04	.57	7	107
3820	.35	.83	.18	0	.15	.03	.43	8	122
3790	.68	.30	.30	434	.09	.21	.68	30	100
3760	.80	.49	.37	404	.18	.19	.81	23	101
3730	.76	.30	.10	380	.03	.07	.59	9	77
3700	1.08	.68	.37	395	.25	.12	1.11	11	102
3670	.84	.46	.28	399	.13	.15	1.09	17	129
3640	1.02	.65	.83	392	.54	.29	.75	28	73
3610	1.37	.49	1.78	399	.88	.90	1.55	65	113
3580	.87	.33	.06	375	.02	.04	.93	4	106
3550	1.02	.70	1.08	373	.76	.32	.92	31	90
3520	1.17	.75	.76	380	.57	.19	1.26	16	107

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DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
9990F	.47	.06	.16	433	.01	.15	.52	31	110
9960	.54	.20	.25	433	.05	.20	.71	37	131
9930	.34	.11	.09	427	.01	.08	.40	23	117
9900	.25	.08	.12	421	.01	.11	.35	44	140
9870	.29	.07	.14	434	.01	.13	.33	44	113
9840	.26	.12	.17	458	.02	.15	.33	57	126
9810	.20	.06	.33	467	.02	.31	.33	155	165
9780	.27	.00	.14	406	.00	.14	.37	51	137
9750	.28	.19	.27	425	.05	.22	.42	78	150
9720	.37	.25	.08	386	.02	.06	.48	16	129
9690	.56	.13	.08	404	.01	.07	.60	12	107
9660	.45	.08	.24	429	.02	.22	.47	48	104
9630	.55	.10	.31	438	.03	.28	.51	50	92
9600	.58	.11	.19	432	.02	.17	.64	29	110
9570	.67	.05	.22	427	.01	.21	.53	31	79
9540	.54	.00	.12	437	.00	.12	.46	22	85
9510	.55	.00	.09	402	.00	.09	.47	16	85
9480	.60	.07	.14	433	.01	.13	.55	21	91
9450	.61	.08	.24	429	.02	.22	.46	36	75
9420	.63	.14	.28	433	.04	.24	.63	38	100
9390	.60	.14	.21	433	.03	.18	.52	30	86
9360	.60	.08	.12	438	.01	.11	.52	18	86
9330	.65	.17	.24	435	.04	.20	.59	30	90
9300	.70	.16	.25	430	.04	.21	.58	29	82
9270	.61	.08	.13	431	.01	.12	.52	19	85
9240	.54	.13	.15	433	.02	.13	.53	24	98
9210	.48	.07	.14	430	.01	.13	.52	27	108
9180	.54	.09	.11	437	.01	.10	.55	18	101
9150	.63	.00	.08	430	.00	.08	.64	12	101
9120	.63	.12	.26	435	.03	.23	.59	36	93
9090	.61	.07	.14	438	.01	.13	.60	21	98
9060	.70	.00	.16	434	.00	.16	.69	22	98
9030	.73	.00	.12	434	.00	.12	.67	16	91
9000	.70	.08	.12	433	.01	.11	.79	15	112
8970	.72	.14	.29	432	.04	.25	.65	34	90
8940	.82	.06	.18	436	.01	.17	.65	20	79
8910	.78	.00	.20	435	.00	.20	.66	25	84
8880	.77	.15	.20	427	.03	.17	.79	22	102
8850	.75	.11	.28	429	.03	.25	.75	33	100
8820	.74	.06	.18	432	.01	.17	.71	22	95
8790	.73	.15	.20	432	.03	.17	.74	23	101
8760	.78	.07	.29	433	.02	.27	.82	34	105
8730	.90	.11	.37	435	.04	.33	.83	36	92
8700	.84	.04	.25	434	.01	.24	.84	28	100
8670	.81	.00	.23	435	.00	.23	.68	28	83
8640	.83	.04	.27	431	.01	.26	.70	31	84
8610	.79	.08	.24	433	.02	.22	.78	27	98
8580	.84	.10	.29	435	.03	.26	.66	30	78
8550	.75	.10	.20	432	.02	.18	.69	24	92
8520	.73	.06	.18	437	.01	.17	1.01	23	138
8490	.76	.10	.20	428	.02	.18	.74	23	97

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
8490	.78	.09	.32	439	.03	.29	.73	37	93
8460	.76	.13	.16	434	.02	.14	.70	18	92
8430	.83	.08	.12	429	.01	.11	.68	13	81
8400	.81	.18	.11	429	.02	.09	.76	11	93
8370	.99	.00	.01	0	.00	.01	1.25	1	126
8340	.76	.09	.11	438	.01	.10	.64	13	84
8310	.69	.07	.14	439	.01	.13	.61	18	88
8280	.72	.00	.08	430	.00	.08	.65	11	90
8250	.85	.29	.34	430	.10	.24	.99	28	116
8220	.50	.00	.06	434	.00	.06	.60	12	120
8190	.19	.00	.01	0	.00	.01	.43	5	226
8160	.10	.00	.01	436	.00	.01	.55	10	550
8130	.21	.00	.04	427	.00	.04	.60	19	285
8100	.31	.00	.01	354	.00	.01	.40	3	129
8070	.30	.00	.09	385	.00	.09	.41	30	136
8040	.27	.17	.06	359	.01	.05	.43	18	159
8010	.30	.30	.10	396	.03	.07	.43	23	143
7980	.23	.00	.04	351	.00	.04	.40	17	173
7950	.27	.00	.04	377	.00	.04	.46	14	170
7920	.54	.07	.14	449	.01	.13	.53	24	98
7890	.64	.12	.17	433	.02	.15	.67	23	104
7860	.52	.07	.15	445	.01	.14	.68	26	130
7830	.84	.00	.20	433	.00	.20	.78	23	92
7800	.54	.00	.10	442	.00	.10	.69	18	127
7770	.55	.18	.11	444	.02	.09	.64	16	116
7740	.58	.00	.15	451	.00	.15	.61	25	105
7710	.70	.15	.27	438	.04	.23	.94	32	134
7680	.56	.00	.06	454	.00	.06	.55	10	98
7650	1.19	.04	.47	445	.02	.45	2.02	37	169
7620	.40	.00	.03	372	.00	.03	.64	7	160
7590	1.00	.05	.19	451	.01	.18	1.16	18	116
7560	.93	.00	.16	451	.00	.16	1.47	17	158
7530	.72	.00	.11	409	.00	.11	.76	15	105
7500	.75	.10	.21	443	.02	.19	1.00	25	133
7440	.66	.08	.12	445	.01	.11	.92	16	139
7410	.66	.13	.23	458	.03	.20	.79	30	119
7380	.47	.00	.06	427	.00	.06	1.02	12	217
7350	.40	.75	.04	341	.03	.01	.60	2	150
7320	.37	.00	.01	0	.00	.01	.56	2	151
7290	.42	.17	.06	351	.01	.05	.73	11	173
7260	.30	.00	.01	0	.00	.01	.57	3	190
7230	.41	.22	.18	433	.04	.14	.98	34	239
7200	.36	.00	.09	412	.00	.09	.63	25	175
7170	.43	.22	.18	412	.04	.14	1.13	32	262
7140	.40	.00	.04	368	.00	.04	.72	10	180
7110	.39	.00	.02	437	.00	.02	.91	5	233
7080	.35	.07	.15	435	.01	.14	.74	39	211
7050	.47	.33	.06	383	.02	.04	.78	8	165
7020	.44	.07	.14	407	.01	.13	.69	29	156
6990	.50	.35	.17	389	.06	.11	.64	22	128
6960	.53	.15	.26	436	.04	.22	1.78	41	335
6930	.68	.06	.17	442	.01	.16	.99	23	145
6900	.54	.18	.22	436	.04	.18	.95	33	175
6870	.55	.00	.07	429	.00	.07	.89	12	161
6840	1.00	.05	.41	441	.02	.39	1.40	39	140

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
6810	.64	.00	.10	440	.00	.10	1.09	15	170
6780	.80	.10	.42	438	.04	.38	1.77	47	221
6750	.61	.00	.12	448	.00	.12	3.26	19	534
6720	1.06	.06	.47	448	.03	.44	2.23	41	210
6690	.88	.00	.24	449	.00	.24	1.93	27	219
6660	.92	.06	.36	448	.02	.34	2.92	36	317
6630	.68	.07	.14	446	.01	.13	1.52	19	223
6600	.60	.13	.08	448	.01	.07	2.15	11	358
6570	.59	.00	.14	447	.00	.14	1.69	23	286
6540	.65	.09	.23	445	.02	.21	2.49	32	383
6510	.73	.06	.32	457	.02	.30	2.48	41	339
6480	.91	.12	.26	445	.03	.23	2.65	25	291
6450	.79	.19	.16	443	.03	.13	2.02	16	255
6420	.73	.13	.15	438	.02	.13	2.38	17	326
6390	.72	.07	.15	443	.01	.14	2.39	19	331
6360	.70	.05	.20	441	.01	.19	3.44	27	491
6330	.93	.10	.29	440	.03	.26	1.95	27	209
6300	.70	.08	.37	440	.03	.34	1.23	48	175
6270	.75	.13	.30	438	.04	.26	1.87	34	249
6240	.69	.23	.43	434	.10	.33	1.20	47	173
6210	.50	.00	.10	439	.00	.10	1.64	20	328
6150	.54	.08	.13	414	.01	.12	1.32	22	244
6120	.41	.40	.10	381	.04	.06	1.33	14	324
6090	.71	.19	.26	445	.05	.21	2.41	29	339
6060	.58	.22	.18	439	.04	.14	1.60	24	275
6030	.57	.29	.17	435	.05	.12	1.44	21	252
6000	.53	.23	.26	434	.06	.20	1.07	37	201
5970	.50	.13	.38	438	.05	.33	1.02	66	204
5940	.75	.16	.37	441	.06	.31	1.95	41	260
5910	.87	.36	.36	436	.13	.23	2.19	26	251
5880	.80	.25	.28	435	.07	.21	3.45	26	431
5850	.71	.10	.30	440	.03	.27	2.72	38	383
5790	1.14	.00	.41	452	.00	.41	2.63	35	230
5730	1.00	.06	.32	452	.02	.30	3.30	30	330
5700	.59	.18	.17	452	.03	.14	2.64	23	447
5640	.70	.14	.28	450	.04	.24	1.73	34	247
5610	.74	.19	.36	435	.07	.29	1.91	39	258
5580	.66	.15	.20	442	.03	.17	2.23	25	337
5550	.67	.22	.23	451	.05	.18	1.88	26	280
5520	.79	.13	.32	443	.04	.28	2.00	35	253
5490	.64	.19	.27	448	.05	.22	1.58	34	246
5460	.46	.40	.05	427	.02	.03	1.72	6	373
5430	.66	.18	.28	442	.05	.23	1.60	34	242
5400	.54	.11	.19	462	.02	.17	1.59	31	294
5370	.52	.13	.08	436	.01	.07	1.61	13	309
5340	.69	.07	.30	444	.02	.28	1.36	40	197
5310	1.17	.09	.46	436	.04	.42	1.96	35	167
5280	1.05	.07	.28	428	.02	.26	1.67	24	159
5220	1.44	.03	.29	441	.01	.28	2.03	19	140
5190	.62	.22	.23	436	.05	.18	1.29	29	208
5160	1.14	.05	.39	443	.02	.37	1.64	32	143
5130	.81	.07	.30	443	.02	.28	1.27	34	156
5100	.61	.14	.07	440	.01	.06	1.19	9	195
5070	.72	.07	.15	433	.01	.14	1.36	19	188
5040	.88	.06	.17	440	.01	.16	1.53	18	173

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
5010	.54	.13	.08	418	.01	.07	1.32	12	244
4980	.58	.10	.10	446	.01	.09	1.18	15	203
4950	.45	.13	.24	434	.03	.21	1.14	46	253
4920	1.07	.09	.33	432	.03	.30	1.57	28	146
4890	.46	.00	.05	361	.00	.05	.85	10	184
4860	.62	.20	.05	356	.01	.04	1.03	6	166
4830	.59	.25	.20	416	.05	.15	1.57	25	266
4770	.49	.27	.11	436	.03	.08	1.28	16	261
4740	.48	.17	.12	401	.02	.10	1.31	20	272
4710	.78	.19	.26	435	.05	.21	1.44	26	184
4680	.55	.07	.15	437	.01	.14	1.36	25	247
4650	.30	.67	.03	421	.02	.01	.67	3	223
4650	.31	.22	.23	439	.05	.18	.73	58	235
4620	.39	.11	.09	382	.01	.08	.84	20	215
4590	.55	.20	.05	357	.01	.04	1.42	7	258
4560	.27	.25	.04	353	.01	.03	.56	11	207
4530	.37	.20	.10	377	.02	.08	.80	21	216
4500	.42	.25	.04	378	.01	.03	1.05	7	250
4470	.41	.16	.19	430	.03	.16	.66	39	160
4440	.68	.26	.19	437	.05	.14	1.01	20	148
4410	.24	.50	.08	381	.04	.04	.57	16	237
4380	.38	.28	.18	417	.05	.13	.90	34	236
4350	.34	.33	.18	432	.06	.12	.87	35	255
4320	.30	.25	.08	437	.02	.06	2.09	20	696
4290	.64	.24	.17	431	.04	.13	1.68	20	262
4260	.01	1.00	.02	0	.02	.00	.51	05	100
4230	2.05	.09	.75	437	.07	.68	2.22	33	108
4200	1.16	.11	.19	432	.02	.17	2.03	14	175
4170	2.36	.17	.54	422	.09	.45	3.35	19	141
4140	3.88	.17	.54	417	.09	.45	4.18	11	107
4110	3.75	.29	.84	417	.24	.60	4.44	16	118

## Amoco Imperial Skelly Skua E-41

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
10610F	.76	.20	.46	436	.09	.37	.43	48	56
10580	.65	.10	.31	442	.03	.28	.33	43	50
10550	.66	.04	.26	447	.01	.25	.33	37	50
10520	.61	.11	.28	434	.03	.25	.26	40	42
10490	.58	.00	.16	439	.00	.16	.30	27	51
10460	.63	.00	.14	457	.00	.14	.33	22	52
10430	.62	.06	.32	411	.02	.30	.27	48	43
10400	.63	.09	.35	440	.03	.32	.30	50	47
10370	.67	.00	.10	441	.00	.10	.21	14	31
10340	.66	.00	.19	438	.00	.19	.35	28	53
10310	.63	.12	.26	445	.03	.23	.41	36	65
10280	.69	.10	.20	460	.02	.18	.44	26	63
10250	.61	.09	.23	433	.02	.21	.33	34	54
10220	1.17	.43	2.73	418	1.18	1.55	1.41	132	120
10190	.74	.00	.12	407	.00	.12	.50	16	67
10160	.69	.14	.21	443	.03	.18	.41	26	59
10130	.67	.00	.18	439	.00	.18	.34	26	50
10100	.61	.00	.15	441	.00	.15	.34	24	55
10070	.67	.09	.32	439	.03	.29	.41	43	61
10040	.69	.05	.20	439	.01	.19	.47	27	68
10010	.72	.05	.19	435	.01	.18	.43	25	59
9980	.65	.11	.37	433	.04	.33	.36	50	55
9950	.67	.07	.15	437	.01	.14	.41	20	61
9920	.55	.00	.17	438	.00	.17	.34	30	61
9890	.59	.00	.25	442	.00	.25	.43	42	72
9860	.63	.03	.29	441	.01	.28	.45	44	71
9830	.61	.05	.39	438	.02	.37	.43	60	70
9800	.58	.04	.25	435	.01	.24	.38	41	65
9770	.53	.00	.10	444	.00	.10	.30	18	56
9740	.66	.07	.29	442	.02	.27	.41	40	62
9710	.55	.04	.23	441	.01	.22	.33	40	60
9680	.56	.00	.10	435	.00	.10	.35	17	62
9650	.57	.07	.27	438	.02	.25	.37	43	64
9620	.57	.08	.40	433	.03	.37	1.02	64	178
9590	.55	.00	.07	439	.00	.07	.37	12	67
9560	.54	.00	.17	448	.00	.17	.38	31	70
9530	.56	.06	.16	439	.01	.15	.31	26	55
9500	.58	.00	.13	426	.00	.13	.38	22	65
9470	.56	.06	.17	440	.01	.16	.35	28	62
9440	.55	.13	.08	362	.01	.07	.38	12	69
9410	.54	.07	.14	410	.01	.13	.39	24	72
9380	.60	.11	.09	428	.01	.08	.46	13	76
9350	.57	.00	.07	429	.00	.07	.39	12	68
9320	.57	.00	.06	431	.00	.06	.39	10	68
9290	.52	.00	.06	383	.00	.06	.41	11	78
9260	.43	.09	.11	437	.01	.10	.40	23	93
9230	.55	.06	.17	432	.01	.16	.43	29	78
9200	.58	.19	.16	433	.03	.13	.47	22	81
9170	.54	.00	.06	437	.00	.06	.39	11	72
9140	.53	.00	.08	437	.00	.08	.33	15	62
9110	.62	.11	.28	437	.03	.25	.40	40	64

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
9080	.58	.00	.07	436	.00	.07	.36	12	62
9050	.61	.00	.07	437	.00	.07	.29	11	47
9020	.62	.08	.26	437	.02	.24	.32	38	51
8990	.69	.05	.22	434	.01	.21	.56	30	81
8960	.63	.11	.09	450	.01	.08	.52	12	82
8930	.66	.10	.21	443	.02	.19	.67	28	101
8900	.62	.00	.13	438	.00	.13	.54	20	87
8870	.55	.00	.11	436	.00	.11	.54	20	98
8840	.53	.05	.19	444	.01	.18	.45	33	84
8810	.53	.05	.22	440	.01	.21	.53	39	100
8780	.51	.13	.08	434	.01	.07	.54	13	105
8750	.61	.10	.10	443	.01	.09	.59	14	96
8720	.54	.10	.20	436	.02	.18	.58	33	107
8690	.47	.00	.08	436	.00	.08	.51	17	108
8660	.48	.20	.20	438	.04	.16	.45	33	93
8630	.40	.00	.08	415	.00	.08	.45	20	112
8620	.90	.51	.45	432	.23	.22	.78	24	86
8600	.39	.12	.17	435	.02	.15	.47	38	120
8570	.42	.00	.09	426	.00	.09	.52	21	123
8540	.53	.32	.31	430	.10	.21	.65	39	122
8510	.53	.16	.25	440	.04	.21	.65	39	122
8480	.60	.24	.37	430	.09	.28	.53	46	88
8450	.53	.20	.10	432	.02	.08	.49	15	92
8420	.61	.20	.15	432	.03	.12	.83	19	136
8390	.55	.11	.18	455	.02	.16	.62	29	112
8360	.67	.29	.17	433	.05	.12	.91	17	135
8330	.62	.20	.15	437	.03	.12	1.15	19	185
8300	.60	.17	.12	442	.02	.10	1.02	16	170
8270	.59	.12	.26	433	.03	.23	.97	38	164
8240	.63	.22	.18	434	.04	.14	.97	22	153
8210	.60	.24	.17	432	.04	.13	.96	21	160
8180	.56	.17	.12	445	.02	.10	.71	17	126
8150	.72	.40	.70	413	.28	.42	1.86	58	258
8120	.72	.33	.27	439	.09	.18	1.22	25	169
8090	.46	.05	.19	442	.01	.18	.44	39	95
8060	.60	.25	.55	436	.14	.41	1.55	68	258
8030	.66	.04	.27	441	.01	.26	.47	39	71
8000	.76	.00	.24	432	.00	.24	.60	31	78
7970	.67	.09	.23	431	.02	.21	.68	31	101
7940	.48	.08	.24	435	.02	.22	.39	45	81
7910	.62	.04	.24	435	.01	.23	.45	37	72
7880	.85	.04	.45	437	.02	.43	.58	50	68
7850	.77	.13	.53	430	.07	.46	.88	59	114
7820	.52	.00	.11	442	.00	.11	.53	21	101
7790	.54	.00	.10	441	.00	.10	.57	18	105
7760	.54	.08	.37	436	.03	.34	.38	62	70
7730	.50	.00	.17	433	.00	.17	.44	34	88
7700	.54	.15	.26	439	.04	.22	.77	40	142
7670	.02	.11	.27	437	.03	.24	.44	12002	200
7640	.45	.08	.13	430	.01	.12	.41	26	91
7610	.44	.00	.19	435	.00	.19	.42	43	95
7580	.57	.04	.28	436	.01	.27	.49	47	85
7550	.59	.00	.21	439	.00	.21	.48	35	81
7520	.61	.09	.35	445	.03	.32	.55	52	90
7510	.60	.17	.12	439	.02	.10	.58	16	96

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
7500	.59	.05	.20	466	.01	.19	.55	32	93
7490	.66	.05	.19	439	.01	.18	.57	27	86
7480	.61	.00	.22	470	.00	.22	.51	36	83
7470	.50	.00	.14	393	.00	.14	.45	27	90
7460	.58	.00	.08	438	.00	.08	.50	13	86
7430	.69	.04	.23	437	.01	.22	.52	31	75
7400	.68	.05	.20	465	.01	.19	.55	27	80
7370	.77	.00	.19	413	.00	.19	.59	24	76
7340	.87	.11	.28	438	.03	.25	.78	28	89
7310	.91	.08	.37	438	.03	.34	.78	37	85
7280	.76	.00	.09	392	.00	.09	.61	11	80
7250	.73	.00	.29	436	.00	.29	.53	39	72
7220	.68	.13	.08	425	.01	.07	.48	10	70
7190	.01	.00	.23	443	.00	.23	.45	2300	4500
7160	.66	.00	.13	441	.00	.13	.53	19	80
7130	1.00	.03	.32	433	.01	.31	.70	31	70
7100	.57	.00	.12	431	.00	.12	.48	21	84
7070	.63	.07	.55	454	.04	.51	.46	80	73
7000	.70	.00	.15	435	.00	.15	.50	21	71
6970	.72	.15	.20	435	.03	.17	.60	23	83
6940	.66	.25	.04	384	.01	.03	.50	4	75
6880	.88	.21	.34	437	.07	.27	.79	30	89
6850	.97	.26	.35	439	.09	.26	.77	26	79
6790	.70	.11	.28	409	.03	.25	.64	35	91
6770	.85	.23	.60	429	.14	.46	1.20	54	141
6750	.74	.25	.16	436	.04	.12	1.26	16	170
6730	.66	.00	.17	443	.00	.17	.52	25	78
6710	.85	.09	.32	440	.03	.29	.66	34	77
6690	.09	.00	.01	0	.00	.01	.56	11	622
6670	.53	.50	.06	0	.03	.03	.65	5	122
6650	.46	.00	.02	0	.00	.02	.95	4	206
6630	.55	.13	.16	407	.02	.14	.63	25	114
6610	.56	.10	.21	438	.02	.19	.50	33	89
6590	.54	.50	.06	393	.03	.03	.48	5	88
6570	.60	.00	.06	383	.00	.06	.62	10	103
6550	.47	.10	.21	447	.02	.19	.40	40	85
6520	.02	.00	.03	427	.00	.03	.26	150	1300
6490	.44	.13	.30	438	.04	.26	.35	59	79
6460	.59	.27	.11	434	.03	.08	.99	13	167
6430	.56	.18	.11	375	.02	.09	1.08	16	192
6400	.45	.11	.18	427	.02	.16	.69	35	153
6370	.40	.20	.15	469	.03	.12	.43	30	107
6340	.40	.50	.02	309	.01	.01	.46	2	115
6310	.31	.27	.15	385	.04	.11	.41	35	132
6280	.39	.33	.09	362	.03	.06	.43	15	110
6250	.44	.13	.15	392	.02	.13	.74	29	168
6220	.01	.00	.03	357	.00	.03	.84	300	8400
6190	.30	.14	.21	436	.03	.18	.59	60	196
6160	.38	.00	.05	400	.00	.05	.57	13	150
6130	.42	.17	.12	383	.02	.10	.38	23	90
6100	.30	.33	.03	308	.01	.02	.28	6	93
6070	.47	.87	.08	310	.07	.01	.54	2	114
6050	.37	.07	.15	395	.01	.14	.42	37	113
6030	.55	.17	.06	339	.01	.05	.70	9	127
6010	.58	.13	.08	359	.01	.07	.71	12	122

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
5990	.66	.10	.20	421	.02	.18	.80	27	121
5970	.65	.24	.34	344	.08	.26	1.27	40	195
5950	.43	.00	.06	335	.00	.06	.92	13	213
5930	.53	.15	.13	394	.02	.11	.73	20	137
5910	.59	.00	.01	305	.00	.01	.81	1	137
5890	.68	.13	.31	430	.04	.27	.81	39	119
5870	.66	.50	.22	436	.11	.11	.83	16	125
5850	.59	.20	.05	430	.01	.04	1.00	6	169
5830	.46	.00	.01	339	.00	.01	.53	2	115
5810	.49	.60	.05	346	.03	.02	.60	4	122
5790	.47	.00	.02	329	.00	.02	.64	4	136
5770	.56	.00	.12	395	.00	.12	.85	21	151
5750	.66	.14	.22	439	.03	.19	1.07	28	162
5730	.64	.00	.04	388	.00	.04	.73	6	114
5710	.60	.00	.02	307	.00	.02	.75	3	125
5680	.62	.26	.27	405	.07	.20	.99	32	159
5650	.62	.15	.13	399	.02	.11	.77	17	124
5620	.57	.14	.14	363	.02	.12	.64	21	112
5590	.70	.14	.21	391	.03	.18	1.02	25	145
5560	.61	.00	.03	342	.00	.03	.77	4	126
5530	.57	.00	.07	380	.00	.07	.68	12	119
5500	.57	.05	.19	438	.01	.18	.72	31	126
5470	.56	.09	.11	433	.01	.10	.89	17	158
5440	.61	.07	.14	432	.01	.13	.86	21	140
5410	.60	.00	.02	326	.00	.02	1.05	3	175
5380	.51	.20	.05	333	.01	.04	.88	7	172
5350	.56	.00	.01	330	.00	.01	.66	1	117
5320	.55	.00	.02	313	.00	.02	.79	3	143
5290	.61	.35	.52	409	.18	.34	1.14	55	186
5260	.44	.00	.01	0	.00	.01	.82	2	186
5230	.41	.00	.04	348	.00	.04	.78	9	190
5200	.63	.00	.04	352	.00	.04	.93	6	147
5170	.67	1.00	.01	0	.01	.00	1.05	0	156
5140	.83	.47	.15	351	.07	.08	.87	9	104
5110	.81	.00	.09	389	.00	.09	1.06	11	130
5080	.79	.54	.13	428	.07	.06	.86	7	108
5050	.73	.00	.09	433	.00	.09	.94	12	128
5020	.74	.19	.26	415	.05	.21	.88	28	118
4990	.76	.00	.04	355	.00	.04	.87	5	114
4960	.74	.13	.08	383	.01	.07	1.23	9	166
4930	.80	.18	.22	428	.04	.18	1.05	22	131
4900	.78	.11	.09	346	.01	.08	1.53	10	196
4870	.75	.09	.22	447	.02	.20	1.41	26	188
4840	.73	.00	.01	0	.00	.01	1.01	1	138
4810	.85	.47	.17	399	.08	.09	1.48	10	174
4780	.79	.22	.36	442	.08	.28	1.04	35	131
4750	.71	.15	.13	474	.02	.11	.91	15	128
4720	.61	.00	.09	383	.00	.09	.91	14	149
4690	.66	.23	.22	418	.05	.17	.90	25	136
4660	.70	.20	.15	428	.03	.12	.93	17	132
4630	.71	.18	.17	427	.03	.14	.78	19	109
4600	.85	.19	.26	434	.05	.21	.93	24	109
4570	.56	.50	.04	310	.02	.02	.69	3	123
4540	1.08	.20	.40	438	.08	.32	.94	29	87
4510	1.83	.09	.69	440	.06	.63	1.19	34	65

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4480	.46	.29	.17	436	.05	.12	.70	26	152
4450	.60	.19	.21	364	.04	.17	.64	28	106
4420	.54	.00	.14	355	.00	.14	.58	25	107
4390	.76	.32	.25	431	.08	.17	.82	22	107
4360	.71	.18	.33	421	.06	.27	.67	38	94
4330	.52	.00	.03	349	.00	.03	.50	5	96
4300	.59	.40	.05	427	.02	.03	.57	5	96
4270	.63	.07	.14	388	.01	.13	.55	20	87
4240	.01	.21	.19	374	.04	.15	.48	15004	4800
4210	.42	.00	.01	0	.00	.01	.43	2	102
4180	.75	.07	.27	432	.02	.25	.76	33	101
4150	.82	.28	.39	428	.11	.28	.81	34	98
4120	.53	.17	.12	421	.02	.10	.54	18	101
4090	.54	.19	.21	418	.04	.17	.53	31	98
4060	.49	.00	.04	330	.00	.04	.50	8	102
4030	.49	1.00	.02	0	.02	.00	.55	0	112
4000	.01	.24	.17	372	.04	.13	.73	13007	7300
3970	.31	.00	.01	0	.00	.01	.67	3	216
3940	.53	.44	.18	361	.08	.10	1.19	18	224
3910	.36	.00	.01	0	.00	.01	.62	2	172
3880	.28	1.00	.01	0	.01	.00	1.29	0	460
3850	.32	.00	.01	360	.00	.01	.69	3	215
3820	.33	.50	.04	0	.02	.02	.84	6	254
3790	.36	.83	.06	0	.05	.01	.93	2	258
3760	.43	.27	.11	338	.03	.08	.76	18	176
3730	.65	.29	.21	356	.06	.15	.69	23	106
3700	.57	.22	.18	376	.04	.14	.66	24	115
3670	.68	.35	.20	337	.07	.13	.73	19	107
3640	.53	.08	.13	415	.01	.12	.58	22	109
3610	.46	1.00	.01	0	.01	.00	.47	0	102
3580	.47	.15	.13	368	.02	.11	.45	23	95
3550	.50	.27	.15	375	.04	.11	.52	22	104
3520	.74	.15	.27	412	.04	.23	.85	31	114
3490	.61	.20	.15	413	.03	.12	.55	19	90
3460	.45	1.00	.03	0	.03	.00	.56	0	124
3430	.45	.00	.01	0	.00	.01	.56	2	124
3400	.52	.25	.40	426	.10	.30	.75	57	144
3370	.51	.67	.03	394	.02	.01	.75	1	147
3340	.66	.19	.21	354	.04	.17	.89	25	134
3310	.60	.14	.14	400	.02	.12	.91	20	151
3280	.67	.42	.12	354	.05	.07	1.10	10	164
3250	.73	.15	.20	428	.03	.17	1.10	23	150
3220	.73	.23	.31	449	.07	.24	1.52	32	208
3190	.82	.06	.17	427	.01	.16	1.32	19	160
3160	.57	.18	.33	424	.06	.27	1.01	47	177
3130	.67	.10	.30	424	.03	.27	.98	40	146
3100	.67	.22	.18	424	.04	.14	1.35	20	201
3070	.50	.36	.28	434	.10	.18	1.34	36	268
3040	.57	.41	.27	369	.11	.16	1.15	28	201
3010	.70	.00	.05	373	.00	.05	1.53	7	218
2980	.93	.18	.28	440	.05	.23	1.79	24	192
2950	1.33	.14	.51	429	.07	.44	2.51	33	188
2920	1.53	.15	.68	427	.10	.58	2.11	37	137
2890	1.52	.13	.64	423	.08	.56	2.14	36	140
2860	2.12	.12	.94	419	.11	.83	2.61	39	123

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2830	1.60	.10	.81	419	.08	.73	2.12	45	132
2800	1.61	.14	.65	418	.09	.56	2.12	34	131
2770	1.24	.14	.79	420	.11	.68	1.72	54	138
2740	1.18	.14	.29	422	.04	.25	2.02	21	171
2710	1.34	.29	1.86	416	.54	1.32	1.54	98	114
2680	1.27	.10	.88	426	.09	.79	1.69	62	133
2650	.95	.34	.77	414	.26	.51	1.95	53	205
2620	.96	.12	.51	447	.06	.45	1.48	46	154
2590	1.36	.18	1.38	411	.25	1.13	1.61	83	118
2560	1.06	.16	.49	422	.08	.41	1.45	38	136
2530	.98	.17	.36	418	.06	.30	1.46	30	148
2500	1.03	.10	.67	419	.07	.60	1.53	58	148
2470	.68	.09	.32	475	.03	.29	1.56	42	229
2440	.76	.25	.24	422	.06	.18	1.88	23	247
2410	.62	.17	.18	367	.03	.15	1.29	24	208
2380	.72	.25	.08	411	.02	.06	2.51	8	348
2350	.59	.25	.08	334	.02	.06	2.92	10	494
2320	1.44	.21	.75	428	.16	.59	2.28	40	158
2290	.90	.21	.39	430	.08	.31	2.83	34	314
2200	.60	.38	.16	398	.06	.10	2.71	16	451
2140	1.26	.24	.97	434	.23	.74	4.72	58	374
2080	.98	.30	1.96	421	.59	1.37	3.34	139	340
2050	.89	.33	1.18	418	.39	.79	2.82	88	316
2020	.88	.31	1.52	421	.47	1.05	3.14	119	356
1990	.76	.28	1.03	418	.29	.74	2.85	97	375
1960	.94	.31	1.34	421	.41	.93	4.12	98	438
1870	1.28	.30	3.25	423	.97	2.28	3.76	178	293
1840	2.59	.27	4.17	432	1.14	3.03	6.91	116	266
1810	.54	.46	1.92	409	.89	1.03	3.60	190	666
1720	.23	.52	.31	322	.16	.15	1.56	65	678
1690	.23	.81	.21	0	.17	.04	2.20	17	956
1660	.20	.43	.58	417	.25	.33	.75	165	375

Amoco IOE Eider M-75

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
11580F	7.58	.20	6.19	423	1.26	4.93	7.62	65	100
11550	1.85	.06	5.71	438	.36	5.35	.59	289	31
11520	1.42	.07	17.13	439	1.22	15.91	.49	1120	34
11490	1.21	.08	2.59	439	.20	2.39	.51	197	42
11460	1.32	.08	2.41	443	.20	2.21	.53	167	40
11430	1.64	.06	4.06	441	.24	3.82	.59	232	35
11430	1.10	.10	2.09	442	.21	1.88	.31	170	28
11340	.31	.05	3.81	440	.19	3.62	.33	1167	106
11310	.66	.05	.37	440	.02	.35	.52	53	78
11280	.71	.10	.42	443	.04	.38	.73	53	102
11250	2.55	.30	4.79	327	1.43	3.36	4.45	131	174
11220	1.03	.31	1.16	432	.36	.80	1.15	77	111
11190	.69	.12	.17	441	.02	.15	.51	21	73
11160	1.24	.20	1.19	389	.24	.95	1.96	76	158
11100	.66	.21	.33	440	.07	.26	.37	39	56
11070	.02	.21	.34	438	.07	.27	.65	13503	250
11040	.93	.14	.71	438	.10	.61	.97	65	104
11010	1.13	.10	.84	435	.08	.76	1.40	67	123
10970	.60	.17	.24	442	.04	.20	.27	33	45
10950	.82	.21	.28	437	.06	.22	.68	26	82
10920	.71	.12	.25	438	.03	.22	.64	30	90
10890	.62	.05	.19	444	.01	.18	.51	29	82
10860	1.52	.18	1.59	388	.29	1.30	3.60	85	236
10830	1.06	.11	.80	438	.09	.71	1.85	66	174
10800	.66	.15	.20	440	.03	.17	.47	25	71
10770	.66	.12	.17	440	.02	.15	.50	22	75
10710	.83	.13	.31	432	.04	.27	1.06	32	127
10680	1.85	.24	2.22	337	.54	1.68	3.87	90	209
10650	.61	.15	.27	439	.04	.23	.38	37	62
10620	.61	.15	.13	433	.02	.11	.53	18	86
10590	.61	.08	.13	439	.01	.12	.49	19	80
10560	.67	.15	.39	436	.06	.33	.48	49	71
10530	.63	.07	.14	436	.01	.13	.47	20	74
10510	.61	.04	.23	438	.01	.22	.58	36	95
10460	.65	.10	.21	442	.02	.19	.85	29	130
10410	.81	.12	.34	438	.04	.30	.92	37	113
10380	.82	.19	.27	433	.05	.22	1.25	26	152
10350	.98	.18	.78	436	.14	.64	1.38	65	140
10320	1.49	.22	1.17	440	.26	.91	2.77	61	185
10290	2.67	.39	3.78	433	1.46	2.32	6.67	86	249
10260	2.90	.38	4.29	383	1.64	2.65	7.77	91	267
10230	.96	.18	.67	437	.12	.55	1.98	57	206
10200	2.51	.42	4.86	326	2.03	2.83	5.74	112	228
10170	1.81	.36	2.81	432	1.00	1.81	3.88	100	214
10140	.74	.16	.45	439	.07	.38	.64	51	86
10110	.70	.09	.43	435	.04	.39	.48	55	68
10080	.75	.16	.43	436	.07	.36	.68	48	90
10050	.72	.10	.40	434	.04	.36	.49	50	68
10020	.71	.07	.30	437	.02	.28	.47	39	66
9990	.68	.13	.55	436	.07	.48	.50	70	73
9960	.69	.14	.42	436	.06	.36	.45	52	65

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
9930	.66	.15	.55	436	.08	.47	.40	71	60
9900	.96	.28	1.49	431	.41	1.08	.86	112	89
9870	.68	.13	.46	434	.06	.40	.65	58	95
9840	.61	.15	.41	436	.06	.35	.61	57	100
9810	.66	.12	.26	438	.03	.23	.72	34	109
9780	.60	.27	.40	434	.11	.29	.94	48	156
9750	.67	.06	.35	436	.02	.33	.64	49	95
9720	.69	.11	.44	436	.05	.39	.46	56	66
9690	.65	.17	.41	440	.07	.34	.55	52	84
9660	.64	.10	.40	436	.04	.36	.33	56	51
9630	.67	.14	.44	437	.06	.38	.49	56	73
9600	.67	.17	.40	435	.07	.33	.50	49	74
9570	.65	.08	.36	437	.03	.33	.34	50	52
9540	.54	.10	.30	436	.03	.27	.41	50	75
9510	.49	.13	.32	439	.04	.28	.34	57	69
9480	.57	.12	.40	439	.05	.35	.33	61	57
9450	.64	.20	.76	436	.15	.61	.50	95	78
9410	.59	.12	.43	434	.05	.38	.38	64	64
9390	.45	.17	.24	438	.04	.20	.40	44	88
9360	.48	.10	.20	436	.02	.18	.38	37	79
9330	.61	.15	.33	439	.05	.28	.54	45	88
9300	.67	.11	.36	439	.04	.32	.46	47	68
9270	.70	.12	.26	434	.03	.23	.42	32	59
9240	.70	.21	.38	441	.08	.30	.44	42	62
9210	.69	.11	.53	437	.06	.47	.31	68	44
9180	.64	.10	.21	436	.02	.19	.33	29	51
9150	.68	.09	.33	435	.03	.30	.37	44	54
9120	.70	.10	.31	438	.03	.28	.28	39	39
9090	.72	.09	.32	437	.03	.29	.36	40	50
9060	.75	.12	.34	434	.04	.30	.36	40	48
9030	.78	.20	.82	434	.16	.66	.39	84	50
9000	.63	.07	.28	439	.02	.26	.29	41	46
8970	.68	.15	.46	436	.07	.39	.36	57	52
8940	.67	.15	.34	436	.05	.29	.48	43	71
8910	.57	.08	.25	433	.02	.23	.42	40	73
8880	.55	.22	.45	435	.10	.35	.39	63	70
8850	.86	.24	1.34	437	.32	1.02	.74	118	86
8820	.64	.17	.48	438	.08	.40	.39	62	60
8790	.51	.15	.48	438	.07	.41	.53	80	103
8760	.54	.10	.41	439	.04	.37	.46	68	85
8730	.64	.07	.70	441	.05	.65	.47	101	73
8700	.71	.08	.64	439	.05	.59	.54	83	76
8670	.81	.11	.66	440	.07	.59	.55	72	67
8640	.80	.08	.52	438	.04	.48	.46	60	57
8580	.69	.12	.34	433	.04	.30	.30	43	43
8520	.72	.13	.39	433	.05	.34	.36	47	50
8490	.71	.13	.38	435	.05	.33	.36	46	50
8460	.71	.08	.38	431	.03	.35	.38	49	53
8430	.72	.12	.43	435	.05	.38	.36	52	50
8400	.67	.11	.47	435	.05	.42	.34	62	50
8370	.72	.12	.34	434	.04	.30	.34	41	47
8340	.64	.07	.30	435	.02	.28	.30	43	46
8310	.72	.10	.39	432	.04	.35	.38	48	52
8210	.65	.13	.32	438	.04	.28	.30	43	46
8170	1.01	.17	.69	431	.12	.57	2.02	56	200

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
8140	1.07	.13	.62	433	.08	.54	2.17	50	202
8110	.73	.17	.36	437	.06	.30	.40	41	54
8080	.89	.25	.53	428	.13	.40	.60	44	67
8050	.73	.10	.29	431	.03	.26	.49	35	67
8020	.74	.18	.39	433	.07	.32	.39	43	52
7990	.72	.12	.34	431	.04	.30	.39	41	54
7960	.73	.15	.47	433	.07	.40	.41	54	56
7930	.71	.14	.35	434	.05	.30	.41	42	57
7900	.76	.12	.34	438	.04	.30	.35	39	46
7870	.77	.12	.26	433	.03	.23	.41	29	53
7840	.72	.17	.29	435	.05	.24	.42	33	58
7810	.68	.10	.40	431	.04	.36	.37	52	54
7780	.73	.12	.26	431	.03	.23	.31	31	42
7750	.87	.12	.40	432	.05	.35	.33	40	37
7720	.71	.16	.31	436	.05	.26	.28	36	39
7690	.69	.12	.26	434	.03	.23	.32	33	46
7660	.61	.27	.41	426	.11	.30	.66	49	108
7600	.83	.23	.35	433	.08	.27	.97	32	116
7590	.75	.16	.19	431	.03	.16	.83	21	110
7570	1.26	.34	2.90	428	1.00	1.90	1.43	150	113
7540	.71	.29	.24	435	.07	.17	.39	23	54
7510	.31	.14	.07	434	.01	.06	.01	19	3
7480	.52	.20	.20	440	.04	.16	.39	30	75
7450	.31	.43	.07	380	.03	.04	.14	12	45
7420	.58	.22	.18	422	.04	.14	.83	24	143
7360	.67	.21	.24	435	.05	.19	.38	28	56
7330	.34	.57	.07	422	.04	.03	.12	8	35
7300	.50	.33	.12	428	.04	.08	.39	16	78
7270	.51	.35	.26	431	.09	.17	.60	33	117
7240	.54	.37	.35	419	.13	.22	.84	40	155
7210	.87	.41	1.48	425	.61	.87	1.16	100	133
7170	.45	.29	.24	432	.07	.17	.59	37	131
7120	.61	.41	.51	430	.21	.30	1.16	49	190
7090	.84	.33	.66	429	.22	.44	4.07	52	484
7060	.64	.30	.37	429	.11	.26	3.24	40	506
7030	.76	.45	.75	414	.34	.41	5.82	53	765
7000	.69	.26	.31	431	.08	.23	.71	33	102
6970	.70	.09	.22	433	.02	.20	.43	28	61
6940	.49	.36	.36	405	.13	.23	.26	46	53
6910	.45	.20	.10	437	.02	.08	.54	17	120
6880	.79	.07	.15	443	.01	.14	.46	17	58
6850	.53	.10	.10	391	.01	.09	.30	16	56
6820	.72	.21	.14	435	.03	.11	.66	15	91
6790	.81	.31	.13	434	.04	.09	.63	11	77
6760	.87	.27	.15	437	.04	.11	1.29	12	148
6730	.86	.22	.32	437	.07	.25	.82	29	95
6700	.53	.25	.04	369	.01	.03	.53	5	100
6660	.35	.38	.13	398	.05	.08	.18	22	51
6630	.56	.17	.06	403	.01	.05	.40	8	71
6610	.73	.21	.24	438	.05	.19	.71	26	97
5690	.55	.00	.07	434	.00	.07	.32	12	58
5660	.32	.18	.11	335	.02	.09	.50	28	156
5630	.59	.00	.01	306	.00	.01	.62	1	105
5600	.64	.00	.02	301	.00	.02	1.05	3	164
5570	.41	1.00	.02	0	.02	.00	.44	0	107

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
5540	.25	.86	.07	427	.06	.01	.33	4	132
5510	.58	.20	.05	359	.01	.04	1.43	6	246
5480	.24	1.00	.01	0	.01	.00	.20	0	83
5450	.32	.33	.09	343	.03	.06	.14	18	43
5420	.49	.50	.02	304	.01	.01	.54	2	110
5390	.46	.20	.20	357	.04	.16	.54	34	117
5360	.60	.24	.17	373	.04	.13	.44	21	73
5330	.37	.38	.08	350	.03	.05	.43	13	116
5300	.35	.00	.01	0	.00	.01	.28	2	79
5270	.51	.33	.03	318	.01	.02	.65	3	127
5240	.33	1.00	.01	0	.01	.00	.45	0	136
5210	.37	.70	.10	0	.07	.03	.50	8	135
5180	.32	1.00	.02	0	.02	.00	.63	0	196
5150	.52	.25	.04	427	.01	.03	1.05	5	201
5120	.38	.14	.07	303	.01	.06	.59	15	155
5090	.35	.00	.01	0	.00	.01	.48	2	137
5060	.35	.00	.05	375	.00	.05	.51	14	145
5030	.32	.33	.06	320	.02	.04	.26	12	81
5000	.40	.33	.03	312	.01	.02	.34	5	85
4970	.26	.00	.01	0	.00	.01	.28	3	107
4940	.49	.00	.01	314	.00	.01	.47	2	95
4910	.50	.20	.05	367	.01	.04	.36	8	72
4880	.51	.50	.02	426	.01	.01	.93	1	182
4850	.44	.20	.10	436	.02	.08	.70	18	159
4820	.48	.29	.07	399	.02	.05	.70	10	145
4790	.32	.44	.09	345	.04	.05	.51	15	159
4760	.29	1.00	.02	0	.02	.00	.47	0	162
4730	.45	.33	.12	379	.04	.08	.65	17	144
4700	.42	.22	.09	372	.02	.07	.52	16	123
4640	.46	.14	.07	381	.01	.06	.48	13	104
4610	.35	.00	.01	0	.00	.01	.44	2	125
4580	.61	.17	.06	352	.01	.05	1.04	8	170
4550	.30	.38	.08	306	.03	.05	.51	16	170
4520	.35	.13	.08	338	.01	.07	.58	19	165
4490	.50	.18	.11	384	.02	.09	1.00	18	200
4460	.35	.30	.10	301	.03	.07	.73	19	208
4430	.33	.33	.06	306	.02	.04	.46	12	139
4400	.26	1.00	.01	0	.01	.00	.76	0	292
4370	.58	.00	.01	437	.00	.01	.75	1	129
4340	.34	.63	.08	0	.05	.03	.82	8	241
4310	1.48	.08	.38	442	.03	.35	1.30	23	87
4280	.31	.50	.08	302	.04	.04	.59	12	190
4250	.33	.75	.04	327	.03	.01	.48	3	145
4220	1.40	.09	.34	451	.03	.31	1.31	22	93
4190	.53	.07	.15	395	.01	.14	.70	26	132
4160	.45	.37	.54	409	.20	.34	1.12	75	248
4130	.52	.00	.01	0	.00	.01	1.54	1	296
4100	.48	.17	.06	425	.01	.05	1.19	10	247
4070	2.02	.68	1.49	433	1.02	.47	1.99	23	98
4040	.24	.25	.04	306	.01	.03	.59	12	245
4010	.27	.60	.10	0	.06	.04	.54	14	200
3980	.18	1.00	.05	0	.05	.00	.34	0	188
3950	.17	.71	.07	439	.05	.02	.45	11	264
3920	.22	.00	.01	0	.00	.01	.50	4	227
3900	.20	.00	.01	0	.00	.01	.56	5	280

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
3880	.42	.63	.24	322	.15	.09	1.96	21	466
3860	.28	1.00	.01	0	.01	.00	.83	0	296
3840	.37	.37	.19	320	.07	.12	1.42	32	383
3820	.32	.00	.01	0	.00	.01	.74	3	231
3800	.26	.29	.14	327	.04	.10	.59	38	226
3780	.18	.50	.02	0	.01	.01	.38	5	211
3760	.23	.67	.03	302	.02	.01	.69	4	300
3740	.18	1.00	.01	0	.01	.00	.46	0	255
3720	.21	.75	.04	319	.03	.01	.72	4	342
3700	.21	.67	.06	304	.04	.02	1.46	9	695
3680	.31	.50	.10	343	.05	.05	1.53	16	493
3660	1.21	.33	.24	419	.08	.16	1.80	13	148
3640	.22	1.00	.05	0	.05	.00	.97	0	440
3620	.23	.67	.27	356	.18	.09	.68	39	295
3600	.20	1.00	.04	0	.04	.00	.75	0	375
3560	.20	.47	.15	306	.07	.08	.88	40	440
3540	.20	.83	.06	0	.05	.01	.62	5	310
3520	.14	1.00	.05	0	.05	.00	.30	0	214
3500	.17	.83	.06	0	.05	.01	.46	5	270
3480	.27	.60	.15	343	.09	.06	.49	22	181
3460	.40	.58	.12	356	.07	.05	.99	12	247
3440	.25	.63	.08	0	.05	.03	.56	12	223
3420	.24	1.00	.05	0	.05	.00	.53	0	220
3400	.24	.67	.09	0	.06	.03	.66	12	275
3380	.22	.57	.07	0	.04	.03	.72	13	327
3350	.24	.50	.08	306	.04	.04	.68	16	283
3320	.21	.50	.10	370	.05	.05	.74	23	352
3290	.28	.75	.04	436	.03	.01	1.28	3	457
3260	.22	1.00	.01	0	.01	.00	1.02	0	463
3230	.36	1.00	.03	0	.03	.00	2.16	0	600
3200	.64	.19	.36	428	.07	.29	2.86	45	446
3190	.59	.09	.11	429	.01	.10	1.58	16	267
3180	.42	.24	.17	380	.04	.13	1.68	30	400
3170	.53	.25	.08	431	.02	.06	1.08	11	203
3150	.74	.13	.23	420	.03	.20	2.66	27	359
3140	.45	.29	.14	361	.04	.10	1.83	22	406
3130	.58	.29	.07	396	.02	.05	2.19	8	377
3120	.73	.00	.01	0	.00	.01	1.73	1	236
3090	.32	.00	.01	303	.00	.01	5.37		31678
3060	.25	.38	.13	362	.05	.08	1.30	32	520
3030	.24	.33	.06	306	.02	.04	1.28	16	533
3000	.34	.33	.09	389	.03	.06	3.97		171167
2970	.38	.50	.02	387	.01	.01	1.34	2	352
2940	.24	.00	.01	308	.00	.01	1.99	4	829
2910	.46	.20	.05	359	.01	.04	5.38		81169
2850	.71	.15	.20	425	.03	.17	2.73	23	384
2820	.98	.14	.35	425	.05	.30	8.60	30	877
2790	1.39	.05	.19	431	.01	.18	6.23	12	448
2760	1.30	.14	.35	427	.05	.30	7.31	23	562
2730	2.81	.14	.28	430	.04	.24	17.34	8	617
2700	1.56	.19	.58	424	.11	.47	6.56	30	420
2670	2.32	.09	.55	415	.05	.50	8.60	21	370
2640	7.16	.10	1.16	423	.12	1.04	12.66	14	176
2610	11.10	.19	3.09	411	.59	2.50	26.88	22	242
2580	1.20	.21	.84	434	.18	.66	9.05	55	754

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2554	1.90	.25	.76	424	.19	.57	13.12	30	690
2520	2.69	.25	1.67	424	.41	1.26	11.32	46	420
2490	1.94	.26	.70	431	.18	.52	11.07	26	570
2461	1.73	.20	.69	433	.14	.55	10.85	31	627
2430	2.56	.28	.47	422	.13	.34	4.66	13	182
2400	1.89	.27	.59	430	.16	.43	2.62	22	138
2370	2.34	.17	.58	430	.10	.48	3.39	20	144
2340	.41	.21	.48	429	.10	.38	1.56	92	380
2310	.27	.44	.16	390	.07	.09	.99	33	366
2280	.18	1.00	.06	0	.06	.00	.94	0	522
2250	.49	.61	.59	389	.36	.23	4.44	46	906
2220	.63	.70	1.00	411	.70	.30	5.04	47	800
2160	1.49	.17	.30	420	.05	.25	2.56	16	171
2130	1.19	.07	.28	427	.02	.26	2.08	21	174
2100	1.97	.19	.68	422	.13	.55	3.15	27	159
2010	1.73	.06	.34	423	.02	.32	2.62	18	151
1980	1.93	.09	.46	425	.04	.42	3.40	21	176
1950	1.78	.08	.37	429	.03	.34	2.89	19	162
1920	1.34	.13	.32	424	.04	.28	2.95	20	220
1860	2.15	.08	1.97	431	.15	1.82	3.28	84	152
1830	.09	.09	.80	428	.07	.73	3.51	811	3900
1800	1.31	.13	.46	423	.06	.40	3.29	30	251
1770	1.73	.12	.17	427	.02	.15	3.00	8	173
1740	1.09	.24	.85	428	.20	.65	2.20	59	201
1680	1.98	.21	.58	423	.12	.46	3.16	23	159
1620	2.35	.23	.35	413	.08	.27	2.61	11	111
1590	3.09	.17	1.23	426	.21	1.02	3.22	33	104
1530	1.77	.19	1.68	426	.32	1.36	4.28	76	241
1500	.06	.35	.75	423	.26	.49	2.25	816	3750
1410	1.66	.27	.52	426	.14	.38	2.84	22	171
1380	2.09	.26	1.57	430	.41	1.16	4.77	55	228
1350	3.91	.12	.56	425	.07	.49	3.03	12	77
1320	3.91	.15	4.44	430	.67	3.77	5.79	96	148
1260	1.36	.29	1.14	426	.33	.81	3.70	59	272
1230	.08	.38	.82	423	.31	.51	4.01	637	5012
1170	.96	.43	.42	415	.18	.24	2.76	25	287
1110	1.47	.41	.68	408	.28	.40	3.35	27	227
1080	1.45	.37	.63	426	.23	.40	4.02	27	277
1050	1.34	.40	.45	411	.18	.27	3.57	20	266
1020	1.18	.44	.52	407	.23	.29	3.28	24	277
990	.67	.53	.19	362	.10	.09	2.28	13	340
960	.83	.46	.41	406	.19	.22	2.30	26	277
930	1.08	.50	1.84	437	.92	.92	3.55	85	328

## Pan Am IOE A-1 NE Grand Falls H-09

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
5190F	.98	.56	1.73	410	.97	.76	1.64	77	167
5160	.73	.66	.99	318	.65	.34	1.20	46	164
5130	.64	.76	.34	0	.26	.08	1.18	12	184
5100	.64	1.00	.15	0	.15	.00	.88	0	137
5070	.59	.80	.25	0	.20	.05	1.01	8	171
5040	.54	.54	.24	322	.13	.11	.79	20	146
5010	.20	.87	.31	0	.27	.04	.55	20	275
4980	.26	.59	.49	315	.29	.20	.61	76	234
4920	.77	.60	.60	358	.36	.24	1.17	31	151
4890	.84	.69	.59	0	.41	.18	1.18	21	140
4860	1.27	.57	.63	401	.36	.27	.83	21	65
4830	.79	.52	.62	393	.32	.30	.98	37	124
4800	.04	.60	.55	339	.33	.22	.95	5502	375
4770	.46	.91	.34	437	.31	.03	.87	6	189
4740	.21	1.00	.50	0	.50	.00	1.37	0	652
4710	.19	.94	.35	0	.33	.02	1.04	10	547
4680	.29	.84	.31	302	.26	.05	1.23	17	424
4650	.40	.79	.63	341	.50	.13	1.44	32	360
4620	.27	.69	.45	336	.31	.14	1.14	51	422
4590	.38	.82	.33	339	.27	.06	1.15	15	302
4560	.31	.94	.34	334	.32	.02	1.18	6	380
4530	.84	.66	.76	428	.50	.26	2.65	30	315
4500	.76	.82	.57	349	.47	.10	1.06	13	139
4470	.66	.56	1.13	423	.63	.50	.93	75	140
4440	.31	.72	.18	444	.13	.05	.85	16	274
4410	.13	.09	1.69	432	.15	1.54	.27	1184	207
4380	.28	1.00	.12	0	.12	.00	.87	0	310
4350	1.36	.52	.27	430	.14	.13	2.52	9	185
4230	5.37	.19	5.36	404	1.02	4.34	4.00	80	74
4200	.42	.76	.29	324	.22	.07	1.20	16	285
4140	.53	.68	.37	367	.25	.12	1.46	22	275
4110	.95	.51	.76	399	.39	.37	1.74	38	183
4080	1.90	.31	.45	439	.14	.31	2.77	16	145

Amoco Imperial Heron H-73

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	****	*****	*****	*****	***	***
11970F	.88	.42	1.04	426	.44	.60	.77	68	87
11880	.34	.37	.35	432	.13	.22	.41	64	120
11820	1.23	.46	1.88	420	.86	1.02	1.50	82	121
11700	.84	.29	.79	429	.23	.56	.99	66	117
11640	.84	.29	1.13	429	.33	.80	.99	95	117
11580	.44	.49	.43	429	.21	.22	.34	50	77
11520	.37	.33	.30	430	.10	.20	.26	54	70
11350	.58	.32	1.00	437	.32	.68	.42	117	72
11320	.92	.26	1.23	437	.32	.91	.54	98	58
11280	.34	.19	.36	436	.07	.29	.26	85	76
11220	.36	.18	.33	437	.06	.27	.25	75	69
11170	.47	.40	.70	436	.28	.42	.39	89	82
11140	.51	.26	.62	430	.16	.46	.58	90	113
11110	.68	.20	.76	433	.15	.61	.65	89	95
11080	.84	.20	.80	433	.16	.64	.69	76	82
11050	.93	.26	.99	439	.26	.73	.74	78	79
11020	.81	.31	.90	435	.28	.62	.79	76	97
10990	.91	.18	.68	436	.12	.56	.55	61	60
10960	1.05	.26	.94	433	.24	.70	.86	66	81
10930	1.13	.30	1.07	434	.32	.75	1.12	66	99
10900	1.23	.20	.80	434	.16	.64	1.74	52	141
10870	1.38	.23	1.37	431	.32	1.05	1.47	76	106
10840	1.36	.20	1.89	434	.38	1.51	.90	111	66
10810	1.12	.11	1.25	435	.14	1.11	.62	99	55
10780	2.16	.61	12.23	428	7.44	4.79	1.63	221	75
10740	.91	.25	1.25	434	.31	.94	.72	103	79
10710	.97	.23	.83	435	.19	.64	.95	65	97
10680	.93	.27	1.04	434	.28	.76	.73	81	78
10650	.89	.29	1.11	436	.32	.79	.75	88	84
10620	1.62	.47	7.99	418	3.77	4.22	1.28	260	79
10590	.78	.26	1.00	429	.26	.74	.82	94	105
10560	.81	.19	.89	434	.17	.72	.65	88	80
10530	.92	.19	.89	433	.17	.72	.78	78	84
10500	.93	.14	.81	434	.11	.70	.67	75	72
10470	.95	.16	1.03	433	.16	.87	.71	91	74
10440	.94	.15	1.07	434	.16	.91	.62	96	65
10410	1.04	.20	1.14	432	.23	.91	.96	87	92
10380	.79	.23	.71	433	.16	.55	.87	69	110
10350	.88	.19	.84	433	.16	.68	.96	77	109
10320	.95	.23	1.04	434	.24	.80	1.09	84	114
10290	.78	.16	.74	433	.12	.62	.52	79	66
10260	.82	.18	.55	431	.10	.45	.47	54	57
10230	1.69	.58	8.43	424	4.93	3.50	.84	207	49
10200	.98	.18	.90	435	.16	.74	.58	75	59
10170	1.12	.15	.75	437	.11	.64	.51	57	45
10140	1.09	.16	.75	436	.12	.63	.56	57	51
10110	1.23	.30	1.22	434	.37	.85	.86	69	69
10080	.94	.48	1.59	430	.77	.82	1.32	87	140
10050	1.12	.40	1.42	432	.57	.85	1.28	75	114
10020	.70	.58	.64	421	.37	.27	1.86	38	265
9990	.90	.60	2.47	418	1.47	1.00	1.41	111	156

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
9960	.96	.38	2.39	429	.91	1.48	1.23	154	128
9930	.94	.56	2.10	430	1.18	.92	1.39	97	147
9900	.41	.71	.42	419	.30	.12	.64	29	156
9870	.54	.79	.97	413	.77	.20	1.04	37	192
9840	.76	.61	2.65	427	1.61	1.04	1.84	136	242
9810	.53	.73	1.93	420	1.40	.53	1.26	100	237
9780	.41	.67	1.46	418	.98	.48	1.23	117	300
9750	.23	.63	.83	426	.52	.31	.74	134	321
9720	1.89	.73	14.55	417	10.68	3.87	2.27	204	120
9690	.42	.71	1.24	421	.88	.36	2.12	85	504
9650	.61	.51	2.64	436	1.35	1.29	1.91	211	313
8240	.61	.39	.64	430	.25	.39	.92	63	150
7600	.73	.57	.76	427	.43	.33	.97	45	132
7570	.62	.31	.29	426	.09	.20	1.10	32	177
7540	.72	.64	.72	417	.46	.26	.93	36	129
7510	.65	.44	.27	423	.12	.15	.65	23	100
7480	.90	.39	.23	427	.09	.14	1.11	15	123
7450	.68	.52	.33	428	.17	.16	1.93	23	283
7420	.56	.15	.20	441	.03	.17	.99	30	176
7390	.44	.62	.13	422	.08	.05	1.21	11	275
7360	.43	.53	.34	436	.18	.16	1.04	37	241
7330	.33	.53	.17	413	.09	.08	1.35	24	409
7300	.38	.43	.30	420	.13	.17	.72	44	189
7270	.54	.11	.09	386	.01	.08	.73	14	135
7240	.03	.15	.20	428	.03	.17	.78	5662	600
7210	1.05	.09	.11	431	.01	.10	.74	9	70
7180	1.08	.17	.12	430	.02	.10	.74	9	68
7150	1.04	.32	.22	423	.07	.15	.85	14	81
7120	1.09	.21	.19	423	.04	.15	.93	13	85
7090	1.09	.40	.20	429	.08	.12	1.23	11	112
7060	1.07	.26	.39	428	.10	.29	1.12	27	104
7030	1.02	.32	.25	428	.08	.17	.95	16	93
7000	1.00	.27	.15	429	.04	.11	.96	11	96
6970	.96	.21	.14	424	.03	.11	1.34	11	139
6940	.95	.20	.25	438	.05	.20	1.41	21	148
6910	.94	.17	.29	425	.05	.24	1.07	25	113
6880	1.00	.27	.22	432	.06	.16	1.34	16	134
6850	.66	.31	.70	429	.22	.48	2.18	72	330
6820	1.10	.08	.25	427	.02	.23	.69	20	62
6790	1.23	.12	.33	427	.04	.29	.72	23	58
6760	1.04	.04	.24	429	.01	.23	.70	22	67
6730	1.08	.00	.22	426	.00	.22	.93	20	86
6700	1.06	.00	.16	426	.00	.16	.70	15	66
6670	1.15	.13	.31	430	.04	.27	.75	23	65
6640	1.25	.10	.41	426	.04	.37	.52	29	41
6610	1.11	.11	.36	431	.04	.32	.60	28	54
6580	1.28	.08	.61	431	.05	.56	.95	43	74
6550	1.15	.10	.40	427	.04	.36	.63	31	54
6520	1.27	.07	.43	429	.03	.40	.64	31	50
6490	1.18	.06	.62	428	.04	.58	.74	49	62
6460	1.23	.08	.99	430	.08	.91	.95	73	77
6370	1.24	.13	.24	430	.03	.21	.85	16	68
6340	1.07	.07	.15	436	.01	.14	.69	13	64
6310	1.11	.10	.30	427	.03	.27	.67	24	60
6280	1.04	.08	.12	425	.01	.11	.60	10	57

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
6250	1.18	.21	.43	426	.09	.34	.82	28	69
6220	1.11	.00	.22	431	.00	.22	.87	19	78
6190	1.16	.03	.31	430	.01	.30	.89	25	76
6160	1.17	.14	.44	431	.06	.38	.90	32	76
6130	1.15	.04	.25	430	.01	.24	.88	20	76
6100	1.22	.08	.25	427	.02	.23	.82	18	67
6070	1.21	.05	.19	428	.01	.18	.77	14	63
6040	1.22	.00	.26	427	.00	.26	.77	21	63
6010	1.19	.00	.14	427	.00	.14	.77	11	64
5980	1.30	.04	.23	429	.01	.22	1.01	16	77
5950	1.34	.05	.20	428	.01	.19	.94	14	70
5920	55.61	.08	.38	433	.03	.35	1.17	0	2
5890	1.24	.03	.30	429	.01	.29	.96	23	77
5860	.90	.09	.57	434	.05	.52	1.14	57	126
5830	.84	.03	.31	428	.01	.30	1.03	35	122
5800	.86	.05	.38	439	.02	.36	1.03	41	119
5770	.77	.27	.71	433	.19	.52	.75	67	97
5740	.67	.14	.51	435	.07	.44	.71	65	105
5710	.75	.05	.81	434	.04	.77	.85	102	113
5680	1.31	.05	.84	434	.04	.80	1.25	61	95
5650	1.18	.12	1.16	434	.14	1.02	1.02	86	86
5620	1.29	.08	1.16	436	.09	1.07	1.16	82	89
5590	1.39	.10	1.12	433	.11	1.01	1.32	72	94
5560	1.40	.07	.98	433	.07	.91	1.43	65	102
5530	1.20	.06	.86	436	.05	.81	1.14	67	95
5500	1.18	.14	.88	428	.12	.76	.97	64	82
5470	1.10	.15	.48	416	.07	.41	.93	37	84
5440	1.18	.07	.54	426	.04	.50	1.16	42	98
5410	1.23	.10	1.08	432	.11	.97	.87	78	70
5380	1.18	.09	1.20	435	.11	1.09	1.01	92	85
5350	.43	.03	.34	434	.01	.33	.38	76	88
5320	1.39	.05	1.11	434	.05	1.06	1.31	76	94
5290	1.02	.23	1.11	418	.26	.85	.81	83	79
5260	1.18	.11	.54	425	.06	.48	1.11	40	94
5230	1.22	.11	.83	420	.09	.74	.87	60	71
5200	1.24	.07	.61	422	.04	.57	.95	45	76
5170	1.48	.08	.40	418	.03	.37	1.03	25	69
5140	1.33	.06	.68	428	.04	.64	.93	48	69
5110	1.34	.16	.99	427	.16	.83	1.00	61	74
5080	1.24	.13	.68	418	.09	.59	1.21	47	97
5050	1.79	.08	1.90	431	.16	1.74	1.21	97	67
5020	1.64	.06	1.65	433	.10	1.55	1.06	94	64
4990	1.62	.04	1.26	435	.05	1.21	1.12	74	69
4960	1.84	.08	2.04	431	.16	1.88	1.47	102	79
4930	1.73	.07	1.73	432	.12	1.61	1.53	93	88
4900	1.15	.07	1.61	434	.12	1.49	.85	129	73
4870	1.20	.10	1.37	435	.14	1.23	1.01	102	84
4840	1.16	.11	1.46	433	.16	1.30	1.09	112	93
4810	1.18	.05	1.48	431	.08	1.40	1.20	118	101
4780	1.10	.04	1.01	430	.04	.97	1.12	88	101
4750	1.15	.04	1.15	434	.05	1.10	1.11	95	96
4720	1.09	.04	.90	435	.04	.86	1.14	78	104
4690	1.11	.07	.71	432	.05	.66	1.26	59	113
4660	1.31	.07	1.30	431	.09	1.21	1.26	92	96
4630	1.26	.08	1.47	438	.12	1.35	1.23	107	97

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4600	1.22	.06	1.46	436	.09	1.37	1.10	112	90
4570	1.24	.09	1.39	436	.13	1.26	1.29	101	104
4540	1.14	.07	1.41	431	.10	1.31	1.21	114	106
4510	.96	.04	.78	429	.03	.75	.95	78	98
4480	1.30	.09	1.75	432	.15	1.60	1.23	123	94
4450	1.42	.08	2.09	431	.16	1.93	1.30	135	91
4420	1.03	.11	1.10	434	.12	.98	.98	95	95
4390	1.08	.09	1.29	430	.12	1.17	1.12	108	103
4360	1.02	.13	1.32	433	.17	1.15	1.04	112	101
4330	1.05	.05	.93	432	.05	.88	1.06	83	100
4300	.93	.06	.87	434	.05	.82	.96	88	103
4270	1.07	.07	1.06	433	.07	.99	1.10	92	102
4240	.82	.09	.58	432	.05	.53	.79	64	96
4210	.96	.04	.91	432	.04	.87	.96	90	100
4180	1.20	.10	1.36	427	.13	1.23	1.19	102	99
4150	1.03	.03	.88	433	.03	.85	1.04	82	100
4120	1.17	.12	.85	424	.10	.75	1.40	64	119
4090	1.68	.09	1.10	420	.10	1.00	1.48	59	88
4060	1.42	.08	.99	420	.08	.91	1.61	64	113
4030	1.57	.08	1.01	424	.08	.93	1.53	59	97
4000	1.60	.07	1.37	429	.09	1.28	1.51	80	94
3970	1.55	.07	1.21	433	.09	1.12	1.53	72	98
3940	1.50	.08	1.50	430	.12	1.38	1.39	92	92
3910	1.73	.07	1.36	431	.10	1.26	1.50	72	86
3880	1.63	.11	1.65	431	.18	1.47	1.43	90	87
3850	1.26	.06	.93	430	.06	.87	1.30	69	103
3820	1.23	.16	.81	418	.13	.68	1.42	55	115
3790	1.24	.13	1.26	422	.17	1.09	1.40	87	112
3760	1.27	.16	1.13	425	.18	.95	1.48	74	116
3730	1.24	.16	.70	421	.11	.59	1.80	47	145
3700	1.18	.18	.57	416	.10	.47	1.85	39	156
3670	1.17	.15	.66	415	.10	.56	1.59	47	135
3640	1.37	.15	.61	416	.09	.52	1.54	37	112
3610	1.16	.17	.66	426	.11	.55	1.31	47	112
3580	1.10	.12	.75	433	.09	.66	1.37	60	124
3520	.91	.05	.73	432	.04	.69	1.14	75	125
3490	.94	.12	.77	423	.09	.68	1.21	72	128
3460	1.28	.19	2.26	425	.42	1.84	1.36	143	106
3430	.01	.16	1.20	429	.19	1.01	1.40	101	100
3400	1.06	.11	.53	425	.06	.47	1.18	44	111
3370	1.34	.15	.84	431	.13	.71	1.59	52	118
3340	1.32	.15	.86	429	.13	.73	1.34	55	101
3310	1.48	.10	.93	427	.09	.84	1.42	56	95
3280	1.25	.15	.48	426	.07	.41	1.45	32	116
3250	1.24	.14	.93	426	.13	.80	1.20	64	96
3220	1.16	.13	.71	433	.09	.62	1.08	53	93
3190	1.18	.14	.50	424	.07	.43	1.20	36	101
3160	1.30	.14	1.40	433	.20	1.20	1.14	92	87
3130	1.25	.11	1.19	430	.13	1.06	1.20	84	96
3100	1.29	.13	1.02	432	.13	.89	1.20	68	93
3070	.89	.16	.58	428	.09	.49	.56	55	62
3070	1.36	.13	.92	430	.12	.80	1.33	58	97
3040	1.25	.13	.86	427	.11	.75	1.18	60	94
3010	1.64	.38	1.50	426	.57	.93	1.43	56	87
2980	1.25	.13	.76	427	.10	.66	1.41	52	112

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2950	1.34	.17	.54	425	.09	.45	1.55	33	115
2920	1.21	.19	.53	428	.10	.43	1.80	35	148
2890	1.00	.10	.29	428	.03	.26	1.30	26	130
2860	.86	.21	.34	414	.07	.27	1.15	31	133
2830	2.06	.67	8.24	394	5.49	2.75	1.57	133	76
2800	1.11	.22	.41	425	.09	.32	1.61	28	145
2770	1.30	.14	.59	430	.08	.51	1.60	39	123
2740	1.50	.19	.99	424	.19	.80	1.82	53	121
2710	1.46	.30	.93	424	.28	.65	1.86	44	127
2680	1.22	.32	.59	422	.19	.40	1.91	32	156
2650	.85	.43	.47	422	.20	.27	1.58	31	185
2620	.87	.30	.86	429	.26	.60	2.37	68	272
2590	1.15	.34	1.07	423	.36	.71	2.08	61	180
2560	1.34	.36	2.41	431	.86	1.55	2.39	115	178
2530	.72	.27	.40	419	.11	.29	1.25	40	173
2500	.76	.22	.50	420	.11	.39	.91	51	119
2470	.72	.20	.50	416	.10	.40	.90	55	125
2440	.96	.52	2.90	427	1.51	1.39	1.18	144	122
2410	1.86	.61	10.28	432	6.26	4.02	1.43	216	76
2380	.91	.47	1.58	426	.74	.84	1.03	92	113
2350	.68	.37	.70	429	.26	.44	.80	64	117
2320	.81	.47	1.22	421	.57	.65	1.33	80	164
2290	.83	.59	1.47	415	.86	.61	1.23	73	148
2260	2.00	.73	13.83	436	10.12	3.71	2.64	185	132
2110	1.01	.67	3.25	396	2.17	1.08	2.05	106	202
2050	.49	.48	.67	392	.32	.35	1.64	71	334
2020	.47	.32	.74	394	.24	.50	1.40	106	297
1990	.47	.22	.40	410	.09	.31	2.24	65	476
1960	.27	.38	.48	401	.18	.30	.86	111	318
1930	.47	.41	.92	370	.38	.54	1.82	114	387
1900	.81	.28	2.98	342	.82	2.16	2.83	266	349
1870	.39	.58	1.60	374	.93	.67	.69	171	176
1840	.75	.00	.01	362	.00	.01	.01	1	1
1840	.53	.63	3.79	393	2.38	1.41	.38	266	71
1810	.71	.32	1.57	359	.50	1.07	2.68	150	377
1780	.43	.53	1.21	395	.64	.57	2.50	132	581
1750	.47	.52	2.01	409	1.05	.96	2.21	204	470
1720	.46	.29	.45	357	.13	.32	2.58	69	560
1690	.31	.63	.56	404	.35	.21	2.24	67	722
1660	.32	.51	.53	390	.27	.26	2.59	81	809
1630	.48	.50	.34	360	.17	.17	2.37	35	493
1600	.34	.57	.77	378	.44	.33	2.21	97	650
1570	.47	.62	.68	384	.42	.26	2.25	55	478
1540	.69	.53	1.06	374	.56	.50	2.30	72	333
1510	3.65	.67	29.78	443	19.96	9.82	2.52	269	69
1480	1.06	.57	5.92	343	3.39	2.53	2.04	238	192
1450	.90	.48	3.58	353	1.71	1.87	2.79	207	310
1420	.28	.50	.04	438	.02	.02	2.33	7	832
1390	.23	.55	.33	340	.18	.15	2.04	65	886
1360	.65	.41	1.47	359	.60	.87	2.41	133	370
1330	.46	.51	1.21	374	.62	.59	2.23	128	484
1300	.43	.59	.90	396	.53	.37	2.14	86	497
1270	.47	.44	.85	358	.37	.48	2.37	102	504
1240	.21	1.00	.08	0	.08	.00	2.37	0	1128
1210	.46	.65	1.27	369	.82	.45	2.59	97	563

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
1180	1.20	.47	6.15	355	2.88	3.27	3.03	272	252
1150	.56	.65	2.82	366	1.83	.99	1.87	176	333
1120	.21	.82	.11	0	.09	.02	2.12		91009
1090	.22	.63	.08	0	.05	.03	2.18	13	990
1060	.17	1.00	.03	0	.03	.00	1.95		01147
1030	.35	.55	.93	340	.51	.42	1.62	119	462
1000	.38	.67	.21	425	.14	.07	1.78	18	468

## Mobil Gulf Flying Foam I-13

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	*****	*****	*****	*****	***	***
12060F	.81	.08	.72	433	.06	.66	1.66	81	204
12030F	1.53	.04	2.62	424	.11	2.51	6.05	164	395
12000F	.73	.05	1.10	434	.06	1.04	.98	142	134
11970	.55	.11	.57	431	.06	.51	.66	92	120
11940	.33	.08	.25	427	.02	.23	.41	69	124
11820	1.60	.05	2.29	433	.12	2.17	2.81	135	175
11700	1.20	.05	3.04	430	.14	2.90	.94	241	78
11670	1.73	.06	2.11	433	.13	1.98	1.59	114	91
11640	1.81	.05	3.36	433	.17	3.19	2.01	176	111
11610	2.26	.07	4.57	431	.34	4.23	4.04	187	178
11550	4.92	.05	15.06	426	.69	14.37	9.74	292	197
11520	5.72	.07	20.47	337	1.52	18.95	17.59	331	307
11400	5.33	.07	21.81	335	1.46	20.35	16.22	381	304
11370	2.43	.04	4.21	433	.18	4.03	1.18	165	48
11340	.86	.06	1.43	432	.09	1.34	.97	155	112
11310	.48	.04	.47	432	.02	.45	.66	93	137
11280	.80	.07	.72	431	.05	.67	1.15	83	143
11250	.88	.06	.80	432	.05	.75	1.24	85	140
11220	.68	.06	.48	433	.03	.45	.97	66	142
11190	.55	.05	.56	432	.03	.53	.79	96	143
11160	3.26	.04	8.59	424	.33	8.26	.98	253	30
11070	.41	.03	.39	436	.01	.38	.57	92	139
11040	.92	.05	1.52	435	.08	1.44	.87	156	94
10950	1.53	.05	3.72	435	.20	3.52	1.32	230	86
10920	1.70	.05	5.09	432	.26	4.83	1.26	284	74
10890	1.66	.05	7.66	429	.35	7.31	1.05	440	63
10860	4.34	.06	32.25	427	1.96	30.29	1.68	697	38
10770	.35	.07	.41	434	.03	.38	.51	108	145
10680	.42	.08	.38	432	.03	.35	.48	83	114
10590	.94	.05	1.43	431	.07	1.36	.85	144	90
10560	1.76	.04	6.02	427	.27	5.75	.83	326	47
10530	1.51	.05	4.59	428	.22	4.37	.80	289	52
10500	.38	.06	.18	434	.01	.17	.68	44	178
10440	.32	.08	.13	431	.01	.12	.74	37	231
10350	.30	.13	.08	445	.01	.07	1.92	23	640
10290	.20	.17	.06	414	.01	.05	1.28	25	640
10260	.37	.11	.09	431	.01	.08	.96	21	259
10170	.61	0.00	.27	445	0.00	.27	.57	44	93
10020	.17	0.00	.01	325	0.00	.01	1.61	5	947
9960	.29	0.00	.05	340	0.00	.05	.87	17	300
9930	.18	0.00	.03	456	0.00	.03	1.27	16	705
9900	.75	0.00	.41	442	0.00	.41	1.22	54	162
9810	.22	.11	.09	359	.01	.08	1.22	36	554
9780	.79	.14	2.02	336	.29	1.73	2.02	218	255
9750	.20	0.00	.02	343	0.00	.02	1.47	10	735
9690	.25	0.00	.06	459	0.00	.06	1.63	24	652
9660	.30	0.00	.09	441	0.00	.09	2.61	30	870
9570	.62	.05	.22	460	.01	.21	2.35	33	379
9540	.33	.07	.15	443	.01	.14	2.06	42	624
9390	5.82	.02	13.27	421	.24	13.03	1.65	223	28
9330	.23	0.00	.06	411	0.00	.06	1.74	26	756

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
9300	.36	0.00	.13	453	0.00	.13	1.26	36	350
9270	.21	0.00	.05	408	0.00	.05	.98	23	466
9240	.39	0.00	.14	478	0.00	.14	1.17	35	300
9210	.33	.04	.23	413	.01	.22	1.35	66	409
9090	.25	0.00	.05	366	0.00	.05	1.75	20	700
9060	.26	0.00	.05	411	0.00	.05	1.33	19	511
9030	.30	0.00	.09	440	0.00	.09	1.50	30	500
8940	.24	0.00	.06	435	0.00	.06	1.43	25	595
8910	.26	0.00	.11	436	0.00	.11	.63	42	242
8880	.27	0.00	.09	392	0.00	.09	1.00	33	370
8850	.42	0.00	.14	453	0.00	.14	1.30	33	309
8820	.57	.04	.23	440	.01	.22	1.65	38	289
8580	1.17	.25	2.65	409	.67	1.98	5.88	169	502
8520	.72	.03	.39	430	.01	.38	1.27	52	176
8430	.51	0.00	.09	453	0.00	.09	1.63	17	319
8400	.54	.06	.36	418	.02	.34	1.24	62	229
8370	.75	.04	.27	440	.01	.26	1.18	34	157
8280	.33	.08	.13	434	.01	.12	.89	36	269
8250	.14	0.00	.03	330	0.00	.03	.83	21	592
8250	.16	0.00	.01	0	0.00	.01	.95	6	593
8220	.58	0.00	.22	428	0.00	.22	.86	37	148
8190	.21	0.00	.03	351	0.00	.03	.57	14	271
8160	.08	0.00	.01	367	0.00	.01	.43	12	537
8160	.09	0.00	.01	0	0.00	.01	.40	11	444
8100	.48	0.00	.15	432	0.00	.15	3.26	31	679
8070	.36	0.00	.04	431	0.00	.04	1.49	11	413
8040	.88	.02	.41	421	.01	.40	1.62	45	184
8010	.55	0.00	.11	435	0.00	.11	1.37	20	249
7950	.31	0.00	.03	349	0.00	.03	.77	9	248
7920	.37	0.00	.06	375	0.00	.06	1.80	16	486
7890	.13	0.00	.01	0	0.00	.01	.86	7	661
7890	.14	0.00	.01	0	0.00	.01	1.00	7	714
7830	.44	0.00	.32	412	0.00	.32	.69	72	156
7740	.56	0.00	.15	460	0.00	.15	1.81	26	323
7710	.53	0.00	.10	432	0.00	.10	.82	18	154
7680	3.34	.01	1.79	429	.01	1.78	2.94	53	88
7620	.53	.05	.21	431	.01	.20	.94	37	177
7530	.12	0.00	.01	0	0.00	.01	.70	8	583
7530	.15	0.00	.01	0	0.00	.01	.73	6	486
7520	.51	0.00	.05	380	0.00	.05	2.37	9	464
7500	.36	0.00	.08	418	0.00	.08	1.13	22	313
7440	1.47	.02	.63	436	.01	.62	3.16	42	214
7380	.76	0.00	.07	399	0.00	.07	1.94	9	255
7350	.73	0.00	.14	428	0.00	.14	1.62	19	221
7290	.69	.04	.24	425	.01	.23	1.60	33	231
7260	1.19	.05	.73	427	.04	.69	.89	57	74
7200	.22	0.00	.01	426	0.00	.01	.54	4	245
7140	.90	.02	.42	426	.01	.41	1.18	45	131
7110	2.48	0.00	.76	426	0.00	.76	3.03	30	122
7080	1.72	0.00	.77	429	0.00	.77	2.41	44	140
7050	2.26	.01	1.04	435	.01	1.03	4.29	45	189
6960	2.78	.02	1.41	432	.03	1.38	2.66	49	95
6900	3.13	.02	1.78	428	.04	1.74	2.52	55	80
6870	3.20	.01	1.61	431	.01	1.60	5.54	50	173
6840	3.27	.02	2.12	428	.05	2.07	2.42	63	74

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
6810	3.52	.01	2.35	430	.02	2.33	3.43	66	97
6750	3.07	0.00	1.45	424	0.00	1.45	2.01	47	65
6690	2.59	0.00	.99	427	0.00	.99	4.35	38	167
6660	2.35	0.00	1.21	430	0.00	1.21	3.43	51	145
6630	3.02	.01	1.65	430	.02	1.63	3.63	53	120
6540	3.25	.01	1.90	428	.01	1.89	3.98	58	122
6510	3.54	.02	1.93	428	.03	1.90	2.65	53	74
6480	3.37	.01	1.87	427	.02	1.85	4.10	54	121
6450	3.44	.01	2.23	426	.03	2.20	3.29	63	95
6420	3.17	.01	1.76	429	.01	1.75	5.84	55	184
6390	3.13	.02	1.90	430	.04	1.86	4.03	59	128
6330	3.77	.02	1.61	425	.03	1.58	5.74	41	152
6300	3.25	.01	3.55	428	.03	3.52	3.44	108	105
6270	3.88	.02	1.83	428	.03	1.80	5.51	46	142
6240	3.40	.02	1.81	433	.04	1.77	5.32	52	156
6210	3.57	.02	1.93	427	.03	1.90	5.07	53	142
6180	4.80	.01	1.64	424	.02	1.62	7.38	33	153
6150	4.94	.01	2.54	431	.03	2.51	6.45	50	130
6120	5.27	.01	2.28	430	.02	2.26	6.95	42	131
6000	5.38	.02	2.56	425	.04	2.52	5.29	46	98
5940	4.36	.01	1.34	418	.02	1.32	6.99	30	160
5880	3.98	.02	.99	411	.02	.97	6.26	24	157
5850	3.06	.03	.98	418	.03	.95	6.20	31	202
5820	3.49	.03	1.65	422	.05	1.60	7.22	45	206
5790	4.80	.01	1.72	425	.02	1.70	6.70	35	139
5670	4.41	.03	1.82	416	.05	1.77	6.82	40	154
5640	5.22	.02	1.53	413	.03	1.50	6.57	28	125
5610	6.13	.01	1.69	411	.02	1.67	4.83	27	78
5580	3.08	.03	1.64	417	.05	1.59	6.09	51	197
5490	3.76	.01	1.09	416	.01	1.08	5.64	28	150
5460	4.75	.02	1.66	414	.04	1.62	5.30	34	111
5430	4.14	.02	1.16	412	.02	1.14	5.49	27	132
5400	3.53	.05	1.21	415	.06	1.15	5.65	32	160
5340	2.92	.04	.73	410	.03	.70	6.18	23	211
5250	2.09	.01	.77	430	.01	.76	5.28	36	252
5220	1.81	.04	.83	420	.03	.80	4.48	44	247
5190	3.88	.03	1.11	419	.03	1.08	5.22	27	134
5130	3.38	.02	1.29	425	.03	1.26	7.22	37	213
5100	3.58	.05	1.21	415	.06	1.15	7.15	32	199
5070	4.56	.03	1.15	410	.04	1.11	7.39	24	162
4950	3.81	.04	1.13	414	.04	1.09	7.39	28	193
4890	5.81	.02	1.81	410	.04	1.77	8.44	30	145
4800	2.99	.02	1.17	417	.02	1.15	6.14	38	205
4650	1.84	.04	.80	413	.03	.77	5.57	41	302
4590	2.62	0.00	.21	458	0.00	.21	1.91	8	72
4560	1.44	.01	.73	427	.01	.72	4.22	50	293
4530	1.58	.03	.90	425	.03	.87	4.00	55	253
4440	1.27	.05	.60	418	.03	.57	4.88	44	384
4410	1.04	.03	.60	425	.02	.58	3.42	55	328
4380	1.68	.01	.71	418	.01	.70	3.73	41	222
4350	.96	.02	.50	428	.01	.49	3.39	51	353
4320	1.32	.01	.74	408	.01	.73	3.44	55	260
4290	.83	.02	.54	427	.01	.53	3.33	63	401
4260	1.66	.03	1.52	421	.05	1.47	2.81	88	169
4230	1.60	.04	1.27	419	.05	1.22	2.90	76	181

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4200	1.31	.01	.85	420	.01	.84	2.56	64	195
4170	.82	.02	.54	435	.01	.53	3.15	64	384
4080	.92	.04	.53	431	.02	.51	2.85	55	309
4050	.97	.03	.61	410	.02	.59	2.84	60	292
4020	1.64	.03	1.45	413	.04	1.41	2.13	85	129

## Mobil Bonanza M-71

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	*****	****	*****	*****	*****	***	***
5300M	.28	.35	.20	386	.07	.13	.33	46	117
5290	.50	.21	.81	363	.17	.64	.37	128	74
5290	.47	.50	.22	350	.11	.11	.18	23	38
5280	3.57	.48	13.67	424	6.52	7.15	3.43	200	96
5270	10.76	.28	12.25	433	3.48	8.77	11.93	81	110
5260	12.30	.15	19.53	429	2.88	16.65	16.25	135	132
5250	4.94	.24	6.39	434	1.53	4.86	4.28	98	86
5240	13.79	.12	27.58	433	3.26	24.32	28.60	176	207
5230	8.02	.15	6.73	433	1.04	5.69	7.20	70	89
5220	1.77	.56	1.91	430	1.07	.84	1.24	47	70
5210	1.70	.54	1.67	435	.90	.77	1.30	45	76
5200	5.29	.19	2.91	432	.55	2.36	4.37	44	82
5190	9.32	.15	7.82	427	1.21	6.61	11.71	70	125
5180	2.77	.42	2.67	422	1.12	1.55	2.07	55	74
5170	2.43	.41	1.52	414	.62	.90	1.89	37	77
5160	8.12	.51	37.72	304	19.28	18.44	5.96	227	73
5150	2.23	.38	2.61	426	.99	1.62	1.77	72	79
5140	6.03	.24	4.17	430	1.00	3.17	5.06	52	83
5130	6.58	.30	5.90	431	1.77	4.13	5.87	62	89
5120	1.56	.53	2.02	394	1.07	.95	1.70	60	108
5110	1.38	.56	16.59	316	9.29	7.30	1.18	528	85
5100	1.58	.26	2.38	355	.61	1.77	1.59	112	100
5090	1.96	.52	5.91	369	3.08	2.83	1.37	144	69
5080	1.41	.32	1.82	436	.59	1.23	1.10	87	78
5070	4.26	.17	2.89	436	.49	2.40	3.51	56	82
5060	11.80	.11	12.19	438	1.39	10.80	12.85	91	108
5050	10.06	.27	17.06	424	4.62	12.44	8.79	123	87
5040	1.79	.47	2.25	398	1.06	1.19	2.03	66	113
5030	7.54	.12	7.90	437	.92	6.98	8.53	92	113
5020	6.41	.14	8.42	436	1.19	7.23	8.35	112	130
5010	2.77	.26	1.84	442	.48	1.36	1.89	49	68
5000	2.33	.40	4.00	426	1.61	2.39	1.65	102	70
4990	1.36	.33	.83	465	.27	.56	.71	41	52
4980	1.12	.38	.76	479	.29	.47	.41	41	36
4970	1.01	.30	.87	470	.26	.61	.30	60	29
4960	1.08	.38	.96	456	.36	.60	.48	55	44
4950	3.26	.20	2.24	439	.44	1.80	2.83	55	86
4940	2.47	.24	2.15	437	.52	1.63	2.37	65	95
4930	.91	.46	.76	475	.35	.41	.44	45	48
4920	1.79	.50	1.35	436	.67	.68	1.22	37	68
4910	2.73	.36	2.28	435	.81	1.47	2.02	53	73
4900	1.49	.42	1.00	440	.42	.58	1.07	38	71
4890	3.06	.46	6.91	434	3.21	3.70	1.63	120	53
4880	1.42	.45	2.20	427	.98	1.22	.63	85	44
4870	1.48	.42	1.34	436	.56	.78	1.18	52	79
4860	1.87	.22	1.83	437	.41	1.42	1.92	75	102
4850	4.02	.09	3.06	427	.27	2.79	4.21	69	104
4840	1.57	.38	.90	458	.34	.56	.98	35	62
4830	1.32	.29	.86	463	.25	.61	.87	46	65
4820	1.08	.37	.63	479	.23	.40	.71	37	65
4810	1.66	.22	1.44	437	.32	1.12	1.22	67	73

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4800	3.06	.26	2.65	402	.70	1.95	2.38	63	77
4790	7.28	.18	4.09	436	.72	3.37	6.77	46	92
4780	3.53	.23	3.63	363	.82	2.81	2.84	79	80
4770	6.81	.23	3.86	432	.90	2.96	7.59	43	111
4760	2.63	.28	1.62	447	.45	1.17	1.82	44	69
4750	4.61	.19	3.20	439	.61	2.59	3.24	56	70
4740	2.43	.21	3.41	352	.72	2.69	1.69	110	69
4730	2.01	.42	1.78	431	.74	1.04	1.94	51	96
4720	1.62	.32	1.18	473	.38	.80	.96	49	59
4710	3.33	.24	2.05	446	.50	1.55	1.97	46	59
4700	3.32	.20	2.06	440	.42	1.64	2.65	49	79
4690	2.15	.23	1.15	441	.27	.88	1.37	40	63
4680	1.68	.32	.82	456	.26	.56	1.09	33	64
4670	2.93	.15	2.27	442	.33	1.94	3.14	66	107
4660	1.32	.37	.81	475	.30	.51	1.60	38	121
4650	1.78	.37	1.27	454	.47	.80	2.35	44	132
4640	1.36	.36	1.34	461	.48	.86	1.62	63	119
4630	1.56	.48	1.44	442	.69	.75	2.12	48	135
4620	1.02	.36	.28	472	.10	.18	1.45	17	142
4610	4.22	.11	2.04	437	.23	1.81	5.62	42	133
4600	5.87	.12	2.58	449	.30	2.28	7.27	38	123
4590	.21	.15	2.54	449	.38	2.16	3.80	1028	1809
4580	3.06	.17	1.93	443	.32	1.61	3.21	52	104
4570	1.21	.29	.85	374	.25	.60	1.31	49	108
4560	.51	.62	.95	406	.59	.36	.21	70	41
4550	.27	.66	.65	454	.43	.22	.26	81	96
4540	2.31	.24	2.41	434	.59	1.82	2.96	78	128
4530	1.22	.28	.83	454	.23	.60	1.85	49	151
4520	.78	.39	.69	432	.27	.42	3.80	53	487
4510	.94	.48	1.39	461	.67	.72	1.05	76	111
4500	3.25	.18	2.96	437	.52	2.44	5.08	75	156
4490	.59	.29	.62	458	.18	.44	.26	74	44
4480	.72	.27	.91	455	.25	.66	.29	91	40
4470	.60	.33	.39	459	.13	.26	.55	43	91
4460	.93	.34	1.40	460	.48	.92	.36	98	38
4450	.94	.45	1.93	452	.87	1.06	.64	112	68
4440	2.09	.73	6.77	433	4.95	1.82	2.12	87	101
4430	1.72	.59	5.30	437	3.12	2.18	1.33	126	77
4420	.82	.55	1.11	449	.61	.50	.64	60	78
4410	1.11	.45	1.76	442	.79	.97	.96	87	86
4400	.75	.34	1.23	452	.42	.81	.48	108	64
4390	.74	.34	1.03	457	.35	.68	.27	91	36
4380	.62	.38	.73	455	.28	.45	.24	72	38
4370	.59	.37	.67	453	.25	.42	.23	71	38
4360	.06	.31	.81	457	.25	.56	.28	933	466
4350	.77	.42	.60	453	.25	.35	.96	45	124
4340	1.01	.48	.63	446	.30	.33	.86	32	85
4330	.69	.37	.62	450	.23	.39	.31	56	44
4320	.58	.45	.29	449	.13	.16	.32	27	55
4310	.50	.45	.29	446	.13	.16	.49	32	98
4300	.48	.44	.34	444	.15	.19	.26	39	54
4290	.45	.36	.42	446	.15	.27	.38	60	84
4280	.46	.25	.28	449	.07	.21	.25	45	54
4270	.34	.39	.28	455	.11	.17	.34	50	100
4260	.48	.46	.28	454	.13	.15	.55	31	114

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
4250	.92	.30	2.49	430	.75	1.74	.25	189	27
4240	.35	.29	.34	439	.10	.24	.24	68	68
4230	.42	.27	.30	444	.08	.22	.32	52	76
4220	.40	.19	.21	452	.04	.17	.21	42	52
4210	.41	.24	.29	451	.07	.22	.28	53	68
4200	.43	.32	.22	447	.07	.15	.29	34	67
4190	.48	.24	.33	450	.08	.25	.36	52	75
4180	.49	.22	.36	454	.08	.28	.26	57	53
4170	.55	.21	.34	450	.07	.27	.24	49	43
4160	.50	.35	.34	449	.12	.22	.30	44	60
4150	.35	.33	.21	456	.07	.14	.23	39	65
4140	.36	.44	.25	448	.11	.14	.27	38	75
4130	.34	.38	.34	453	.13	.21	.23	61	67
4120	.39	.72	.25	452	.18	.07	.28	17	71
4110	.46	.31	.32	463	.10	.22	.50	47	108
4100	.44	.50	.12	443	.06	.06	.29	13	65
4090	.42	.37	.19	447	.07	.12	.35	28	83
4080	.47	.36	.25	450	.09	.16	.35	34	74
4070	.52	.34	.29	445	.10	.19	.41	36	78
4060	.50	.28	.39	444	.11	.28	.46	55	92
4050	.42	.31	.48	424	.15	.33	.34	78	80
4040	.41	.29	.31	450	.09	.22	.38	53	92
4030	.40	.19	.26	441	.05	.21	.25	52	62
4020	.45	.41	.32	390	.13	.19	.42	42	93
4010	.83	.00	.05	339	.00	.05	.01	6	1
4000	.41	.26	.27	442	.07	.20	.37	48	90
3990	.47	.44	.27	440	.12	.15	.43	31	91
3980	.52	.46	.35	412	.16	.19	.39	36	75
3970	.42	.62	.21	321	.13	.08	.34	19	80
3960	.44	.67	.09	383	.06	.03	.31	6	70
3950	.43	.45	.11	404	.05	.06	.40	13	93
3940	.44	.56	.25	394	.14	.11	.36	25	81
3930	.43	.43	.35	428	.15	.20	.31	46	72
3920	.47	.35	.37	438	.13	.24	.41	51	87
3910	.45	.30	.33	439	.10	.23	.28	51	62
3900	.52	.18	.44	440	.08	.36	.46	69	88
3890	.64	.35	.68	435	.24	.44	.57	68	89
3880	.46	.27	.33	429	.09	.24	.41	52	89
3870	.59	.39	.41	432	.16	.25	.70	42	118
3860	.44	.55	.11	407	.06	.05	.46	11	104
3850	.47	.25	.28	441	.07	.21	.36	44	76
3840	.43	.27	.22	433	.06	.16	.39	37	90
3830	.46	.38	.21	434	.08	.13	.43	28	93
3820	.54	.53	.19	439	.10	.09	.56	16	103
3800	.53	.35	.23	409	.08	.15	.63	28	118
3790	.42	.45	.22	445	.10	.12	.36	28	85
3780	.42	.35	.26	441	.09	.17	.35	40	83
3770	.34	.87	.08	426	.07	.01	.28	2	82
3760	.47	.45	.22	438	.10	.12	.34	25	72
3750	.53	.27	.89	436	.24	.65	.19	122	35
3740	.43	.52	.42	439	.22	.20	.46	46	106
3730	.35	.55	.38	435	.21	.17	.40	48	114
3730	.32	.34	.29	419	.10	.19	.15	59	46
3720	.51	.27	.59	440	.16	.43	.36	84	70
3710	.53	.24	.59	440	.14	.45	.43	84	81

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
3700	.68	.17	1.36	436	.23	1.13	.21	166	30
3690	2.80	.22	13.70	437	3.06	10.64	.39	380	13
3680	.97	.29	3.11	441	.89	2.22	.32	228	32
3670	.39	.65	.17	366	.11	.06	.29	15	74
3660	.52	.64	.28	434	.18	.10	.87	19	167
3650	.49	.85	.20	436	.17	.03	.74	6	151
3640	.47	.22	.27	443	.06	.21	.32	44	68
3630	.46	.17	.30	442	.05	.25	.33	54	71
3620	.61	.30	.40	436	.12	.28	.51	45	83
3610	.45	.26	.27	439	.07	.20	.27	44	60
3600	.46	.32	.25	438	.08	.17	.42	36	91
3590	.45	.29	.28	437	.08	.20	.41	44	91
3580	.46	.26	.38	438	.10	.28	.62	60	134
3570	2.54	.06	3.15	421	.19	2.96	.47	116	18
3560	.67	.22	.23	435	.05	.18	.56	26	83
3550	.65	.44	.91	426	.40	.51	.82	78	126
3540	.70	.35	.60	437	.21	.39	1.09	55	155
3530	.56	.29	.24	440	.07	.17	.88	30	157
3510	.55	.19	.27	440	.05	.22	.59	40	107
3500	.61	.13	.30	444	.04	.26	.55	42	90
3490	.49	.19	.16	439	.03	.13	.80	26	163
3470	.49	.13	.24	440	.03	.21	.44	42	89
3460	.58	.04	.27	439	.01	.26	.83	44	143
3450	1.33	.03	.91	445	.03	.88	.33	66	24
3450	.57	.08	.40	439	.03	.37	.79	64	138
3440	.73	.05	.22	440	.01	.21	1.29	28	176
3430	2.02	.03	9.68	343	.26	9.42	.50	466	24
3420	1.20	.04	.98	446	.04	.94	.34	78	28
3410	1.35	.14	1.33	334	.18	1.15	.29	85	21
3400	1.61	.03	1.48	444	.05	1.43	.38	88	23
3390	1.59	.04	1.37	443	.06	1.31	.35	82	22
3380	1.65	.04	1.49	443	.06	1.43	.34	86	20
3370	1.59	.04	1.60	445	.07	1.53	.47	96	29
3360	1.83	.06	2.05	434	.12	1.93	.50	105	27
3350	1.89	.04	2.10	443	.08	2.02	.36	106	19
3340	1.96	.03	1.47	437	.04	1.43	.58	72	29
3330	2.55	.05	2.95	421	.14	2.81	.54	110	21
3320	1.95	.04	1.81	440	.08	1.73	.44	88	22
3310	1.93	.04	1.60	435	.07	1.53	.60	79	31
3300	1.76	.04	1.53	441	.06	1.47	.47	83	26
3290	2.16	.03	3.25	440	.09	3.16	.55	146	25
3280	2.44	.05	3.87	436	.18	3.69	.66	151	27
3270	2.43	.03	3.11	439	.09	3.02	.51	124	20
3260	2.30	.04	2.08	440	.08	2.00	.55	86	23
3250	2.26	.03	2.68	438	.08	2.60	.71	115	31
3240	2.06	.04	1.74	439	.07	1.67	.50	81	24
3230	2.19	.03	2.42	439	.08	2.34	.69	106	31
3220	1.96	.05	1.75	439	.08	1.67	.50	85	25
3210	2.19	.03	2.75	438	.09	2.66	.54	121	24
3200	2.21	.05	2.84	437	.15	2.69	.91	121	41
3190	2.48	.06	2.86	438	.18	2.68	.91	108	36
3180	1.96	.05	2.33	440	.11	2.22	1.01	113	51
3170	2.35	.07	2.38	434	.17	2.21	.78	94	33
3160	2.45	.08	3.83	434	.30	3.53	1.23	144	50
3150	2.05	.03	2.08	440	.06	2.02	.76	98	37

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
3140	2.38	.04	2.72	436	.10	2.62	.71	110	29
3130	2.06	.02	1.91	437	.04	1.87	.52	90	25
3120	2.30	.03	2.08	437	.06	2.02	.44	87	19
3110	2.00	.02	1.51	436	.03	1.48	.52	74	26
3100	2.23	.02	1.73	439	.04	1.69	.70	75	31
3090	2.03	.02	1.37	436	.03	1.34	.75	66	36
3080	2.34	.07	4.04	435	.29	3.75	1.55	160	66
3070	1.89	.02	2.02	438	.05	1.97	.40	104	21
3060	1.98	.02	1.80	438	.04	1.76	.84	88	42
3050	1.95	.02	1.69	435	.03	1.66	.52	85	26
3040	1.86	.02	1.40	437	.03	1.37	.50	73	26
3030	1.66	.03	1.18	436	.03	1.15	.51	69	30
3020	2.19	.04	2.61	438	.11	2.50	1.13	114	51
3010	1.96	.02	1.96	437	.03	1.93	1.57	98	80
3000	2.01	.02	1.90	439	.04	1.86	1.09	92	54
2990	2.03	.02	1.98	438	.03	1.95	.70	96	34
2980	2.08	.05	2.71	439	.14	2.57	1.48	123	71
2970	2.25	.05	2.91	438	.15	2.76	1.40	122	62
2960	2.27	.05	2.77	439	.13	2.64	2.30	116	101
2950	2.10	.05	2.87	435	.14	2.73	2.55	130	121
2940	2.26	.06	3.00	436	.19	2.81	1.50	124	66
2930	1.84	.03	1.48	432	.04	1.44	1.05	78	57
2920	1.71	.03	2.03	436	.06	1.97	2.29	115	133
2910	2.20	.05	2.80	438	.14	2.66	1.92	120	87
2900	1.94	.04	2.14	436	.08	2.06	.94	106	48
2890	1.79	.06	2.35	434	.14	2.21	1.26	123	70
2880	1.78	.02	1.37	435	.03	1.34	1.19	75	66
2870	1.62	.03	1.55	434	.05	1.50	.88	92	54
2860	1.77	.06	2.39	433	.14	2.25	1.27	127	71
2850	1.67	.02	1.09	434	.02	1.07	.72	64	43
2840	1.74	.02	1.15	434	.02	1.13	1.01	64	58
2830	1.78	.01	1.41	435	.02	1.39	1.10	78	61
2820	1.82	.07	2.28	434	.16	2.12	1.66	116	91
2810	1.74	.03	1.74	434	.06	1.68	1.22	96	70
2800	1.55	.03	1.31	432	.04	1.27	.89	81	57
2790	1.58	.01	1.42	434	.02	1.40	.87	88	55
2780	1.60	.00	1.37	435	.01	1.36	1.04	85	65
2770	1.49	.02	1.18	436	.02	1.16	.89	77	59
2760	2.04	.02	1.79	435	.03	1.76	2.23	86	109
2750	1.84	.02	1.51	434	.03	1.48	1.15	80	62
2740	1.57	.00	1.28	437	.01	1.27	1.22	80	77
2730	1.54	.04	1.51	432	.06	1.45	1.29	94	83
2720	1.70	.02	1.49	435	.03	1.46	1.80	85	105
2710	1.72	.00	1.20	433	.01	1.19	1.16	69	67
2700	1.83	.04	1.42	433	.05	1.37	1.31	74	71
2690	1.82	.02	1.84	436	.03	1.81	1.94	99	106
2680	1.70	.03	2.24	437	.07	2.17	1.41	127	82
2670	1.89	.06	2.30	436	.14	2.16	1.83	114	96
2660	1.95	.06	2.80	436	.16	2.64	1.92	135	98
2650	1.78	.02	1.72	433	.04	1.68	1.48	94	83
2640	1.97	.03	2.25	434	.06	2.19	1.37	111	69
2630	2.06	.03	2.27	431	.07	2.20	2.14	106	103
2620	1.82	.01	1.78	435	.02	1.76	1.84	96	101
2610	2.05	.03	2.27	435	.07	2.20	1.44	107	70
2600	2.01	.02	1.85	434	.04	1.81	1.32	90	65

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2590	2.00	.03	2.15	435	.06	2.09	1.60	104	80
2580	1.94	.04	1.90	431	.08	1.82	1.77	93	91
2570	2.26	.05	3.12	433	.15	2.97	1.76	131	77
2560	2.10	.04	3.00	436	.12	2.88	1.59	137	75
2550	2.10	.05	2.95	433	.15	2.80	1.78	133	84
2540	2.13	.06	2.82	438	.16	2.66	2.00	124	93
2530	2.21	.07	2.88	440	.21	2.67	2.23	120	100
2520	2.03	.03	1.62	434	.05	1.57	1.01	77	49
2510	2.18	.01	1.87	433	.02	1.85	.79	84	36
2500	2.10	.02	1.75	434	.03	1.72	1.04	81	49
2490	2.34	.00	1.62	434	.01	1.61	.99	68	42
2480	2.36	.01	2.16	434	.03	2.13	.99	90	41
2470	2.22	.01	1.95	433	.02	1.93	1.11	86	50
2460	2.33	.04	2.46	437	.11	2.35	1.47	100	63
2450	2.27	.03	2.06	434	.07	1.99	1.46	87	64
2440	2.37	.05	2.82	433	.15	2.67	1.97	112	83
2430	2.24	.01	1.69	438	.02	1.67	1.55	74	69
2420	2.36	.01	1.70	436	.02	1.68	1.21	71	51
2410	2.35	.01	1.75	434	.02	1.73	1.40	73	59
2400	2.52	.02	1.93	431	.03	1.90	1.30	75	51
2390	2.33	.01	1.76	433	.02	1.74	1.39	74	59
2380	2.35	.00	1.36	431	.01	1.35	1.23	57	52
2370	2.36	.01	1.86	433	.02	1.84	1.40	77	59
2360	2.23	.01	1.49	434	.02	1.47	1.24	65	55
2350	2.45	.01	2.06	434	.02	2.04	1.81	83	73
2340	2.37	.02	1.70	431	.04	1.66	1.79	70	75
2330	2.27	.01	1.46	431	.02	1.44	1.56	63	68
2320	2.19	.00	1.48	432	.01	1.47	1.66	67	75
2310	2.18	.00	1.59	433	.01	1.58	1.47	72	67
2300	2.21	.03	1.55	429	.04	1.51	1.47	68	66
2290	2.12	.01	1.37	433	.02	1.35	1.16	63	54
2280	2.14	.00	1.57	431	.01	1.56	1.13	72	52
2270	2.03	.01	1.41	430	.02	1.39	1.25	68	61
2260	2.17	.05	1.74	433	.09	1.65	1.28	76	58
2250	2.15	.02	1.51	429	.03	1.48	1.47	68	68
2240	2.03	.02	1.17	430	.02	1.15	1.18	56	58
2230	2.06	.00	1.21	435	.01	1.20	1.04	58	50
2220	2.17	.02	1.58	433	.03	1.55	1.08	71	49
2210	2.02	.01	1.39	431	.02	1.37	1.22	67	60
2200	1.94	.03	1.39	432	.04	1.35	1.14	69	58
2190	2.00	.00	1.34	435	.01	1.33	1.29	66	64
2180	2.05	.02	1.56	437	.03	1.53	1.44	74	70
2170	1.93	.02	1.20	433	.02	1.18	.99	61	51
2160	2.06	.02	1.49	431	.03	1.46	1.48	70	71
2150	1.92	.02	1.22	432	.02	1.20	1.12	62	58
2140	2.11	.04	1.99	435	.07	1.92	1.23	90	58
2130	2.02	.05	1.53	434	.07	1.46	1.10	72	54
2120	1.96	.01	1.36	434	.02	1.34	1.39	68	70
2110	1.94	.05	1.25	430	.06	1.19	.99	61	51
2100	1.95	.02	1.26	430	.03	1.23	1.15	63	58
2090	2.02	.05	1.72	432	.08	1.64	1.49	81	73
2070	1.89	.04	1.38	431	.06	1.32	1.88	69	99
2060	1.87	.05	1.32	435	.07	1.25	1.47	66	78
2050	1.91	.03	1.33	436	.04	1.29	1.36	67	71
2040	1.89	.02	1.13	432	.02	1.11	1.13	58	59

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
2030	1.76	.01	.97	433	.01	.96	1.25	54	71
2020	1.72	.01	1.04	435	.01	1.03	1.72	59	100
2010	1.91	.03	1.43	435	.05	1.38	2.02	72	105
2000	1.83	.04	1.22	434	.05	1.17	1.64	63	89
1990	1.79	.02	1.07	435	.02	1.05	1.71	58	95
1980	1.96	.00	1.19	436	.00	1.19	1.78	60	90
1970	1.53	.01	.94	432	.01	.93	1.29	60	84
1960	1.92	.02	1.06	431	.02	1.04	1.77	54	92
1950	1.78	.01	.87	432	.01	.86	1.69	48	94
1940	1.96	.03	1.65	433	.05	1.60	1.81	81	92
1930	1.82	.02	1.33	432	.03	1.30	1.73	71	95
1920	1.75	.02	1.39	434	.03	1.36	1.64	77	93
1910	2.12	.04	1.78	429	.07	1.71	1.64	80	77
1900	1.77	.02	1.33	434	.02	1.31	1.58	74	89
1890	1.86	.10	1.80	432	.18	1.62	2.07	87	111
1880	1.87	.06	1.72	432	.11	1.61	2.00	86	106
1870	1.90	.05	1.75	437	.09	1.66	1.68	87	88
1860	1.86	.03	1.45	429	.05	1.40	1.29	75	69
1850	2.17	.02	1.71	430	.04	1.67	1.62	76	74
1840	2.23	.03	1.97	433	.06	1.91	1.76	85	78
1830	2.05	.03	1.26	431	.04	1.22	1.65	59	80
1820	2.02	.02	1.24	431	.02	1.22	1.65	60	81
1810	2.02	.04	1.37	432	.05	1.32	1.94	65	96
1800	1.89	.03	1.51	434	.04	1.47	1.51	77	79
1790	1.98	.03	1.48	436	.05	1.43	1.86	72	93
1780	1.93	.05	1.74	431	.08	1.66	2.01	86	104
1770	1.87	.06	1.98	432	.11	1.87	1.69	100	90
1760	1.95	.05	1.58	433	.08	1.50	1.95	76	100
1750	1.86	.05	1.51	430	.08	1.43	1.98	76	106
1740	1.89	.03	1.91	433	.06	1.85	1.65	97	87
1730	1.78	.05	1.88	436	.10	1.78	1.92	100	107
1720	1.72	.07	2.07	434	.14	1.93	2.15	112	125
1710	1.71	.03	1.47	434	.04	1.43	2.10	83	122
1700	1.76	.01	1.37	431	.02	1.35	1.89	76	107
1690	1.74	.05	2.06	435	.10	1.96	1.49	112	85
1680	1.83	.07	2.12	430	.14	1.98	1.93	108	105
1670	2.04	.07	2.30	426	.15	2.15	1.91	105	93
1660	1.97	.04	1.54	435	.06	1.48	1.79	75	90
1650	1.85	.03	1.51	431	.05	1.46	1.83	78	98
1640	2.11	.05	2.13	431	.11	2.02	1.38	95	65
1630	2.16	.04	2.30	433	.10	2.20	1.49	101	68
1620	2.09	.07	2.36	433	.16	2.20	1.52	105	72
1610	1.81	.05	1.74	433	.08	1.66	1.40	91	77
1600	2.08	.10	2.19	435	.21	1.98	1.65	95	79
1590	2.21	.16	3.48	432	.57	2.91	1.73	131	78
1580	2.05	.07	1.88	435	.13	1.75	1.63	85	79
1570	1.53	.04	.83	431	.03	.80	1.64	52	107
1560	2.20	.24	3.71	427	.89	2.82	1.52	128	69
1550	1.93	.12	1.88	428	.23	1.65	1.86	85	96
1540	1.86	.08	1.24	428	.10	1.14	1.74	61	93
1530	1.65	.07	1.09	432	.08	1.01	1.38	61	83
1520	1.79	.04	.96	429	.04	.92	1.46	51	81
1510	1.55	.07	1.21	428	.08	1.13	1.46	72	94
1500	1.54	.03	1.10	432	.03	1.07	1.64	69	106
1490	1.47	.04	.75	426	.03	.72	1.88	48	127

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
1480	.86	.21	.38	414	.08	.30	1.79	34	208
1470	.50	.24	.33	414	.08	.25	2.92	50	584
1450	1.34	.05	1.05	427	.05	1.00	1.63	74	121
1440	1.38	.12	1.03	412	.12	.91	1.30	65	94
1430	1.34	.09	1.11	415	.10	1.01	1.16	75	86
1420	1.34	.15	1.05	417	.16	.89	1.28	66	95
1410	1.32	.15	1.15	414	.17	.98	1.29	74	97
1400	1.38	.14	1.07	416	.15	.92	1.32	66	95
1390	1.05	.04	.48	426	.02	.46	1.10	43	104
1380	.77	.09	.35	425	.03	.32	1.13	41	146
1370	.84	.00	.20	426	.00	.20	1.21	23	144
1360	1.10	.07	.43	428	.03	.40	1.39	36	126
1350	1.08	.11	.85	414	.09	.76	1.19	70	110
1340	.95	.16	.75	426	.12	.63	1.10	66	115
1330	1.00	.15	1.00	414	.15	.85	1.31	85	131
1320	.95	.11	.88	415	.10	.78	1.27	82	133
1310	1.04	.15	1.44	401	.21	1.23	1.25	118	120
1300	1.01	.19	1.08	400	.20	.88	1.36	87	134
1290	.86	.10	.63	408	.06	.57	.97	66	112
1280	.93	.09	.80	424	.07	.73	1.04	78	111
1270	.89	.16	.75	414	.12	.63	1.00	70	112
1260	.86	.08	.52	416	.04	.48	.92	55	106
1250	.98	.09	.67	422	.06	.61	1.00	62	102
1240	.81	.13	.93	469	.12	.81	1.06	100	130
1230	.96	.14	.90	398	.13	.77	.98	80	102
1220	.96	.12	1.18	413	.14	1.04	1.02	108	106