Geological Survey of Canada
Commission Geologique du Canada

Open File 1720

PETROLEUM SOURCE ROCK POTENTIAL AND THERMAL MATURATION RECONNAISSANCE IN EAGLE PLAIN, YUKON TERITORY

L.R. Snowdon

Geological Survey of Canada (Calgary)
3303 - 33 Street NW
Calgary, Alberta T2L 2A7

Petroleum source rock potential and thermal maturation reconnaissance in Eagle Plain, Yukon Territory

Lloyd R. Snowdon
Geological Survey of Canada
S & M Geoscience Branch
Institute of Sedimentary and Petroleum Geology

G.S.C. Project 243-7663
F.G.P. Project 243-8545

Introduction

Rock-Eval pyrolysis and total organic carbon analysis (RE/TOC) has been carried out on a number of drill cuttings samples from ten wells on Eagle Plain of the Yukon Territory (Figure 1) in order to assess the petroleum potential of this area. The RE/TOC instrument provides several parameters useful for interpreting the level of thermal maturation, the type or quality of the organic matter present and the amount of organic matter present in the sediments.

Besides the determination of source rock quality, stratigraphic and tectonic implications may also be drawn from the information on maturation and organic matter. The estimated level of thermal maturation is a useful indicator of the amount of erosion and hence deposition which has occurred but is no longer recorded in the sediments themselves. This estimate of erosion is applicable at the present surface and at each unconformity represented in the drilled section. Because the maturation (catagenesis) of organic matter is irreversible, only the maximum amount of thermal stress is recorded. Nevertheless, constraints on the amount of erosion can be estimated for each unconformity.

Organic matter type and rate of increase of the level of maturation are two additional parameters which have geological implications. The former may contribute information concerning the depositional environment and the latter, the paleogeothermal history.

Method

SAMPLES. The sampling interval was generally 20' (~6m) although one well was analyzed on a 10' (~3m) interval. The samples were obtained from the "excess cuttings" after the archival vial of sample had been obtained. A small amount of material was removed from the sample bag and obvious contaminants such as fragments of wood or other lost-circulation material were removed. Contamination was thus avoided as much as possible but not precluded. A small aliquot of cuttings (1-2g) was pulverized using an agate mortar and pestle. This pulverization helps to ensure that the sample actually analyzed is representative of the whole cuttings sample and also that complete pyrolysis and combustion will occur in the Rock-Eval/TOC analyzer. The

actual analysis is carried out on an aliquot of about 100mg, so several duplicate analyses can be run on the pulverized sample. Because the sample spacing was quite small in this study, relatively few duplicate analyses were run. Adequate reliability estimates can be made by observing the results for adjacent samples.

ROCK-EVAL/TOC. The Rock-Eval/TOC analyzer yields five measured parameters known as S1, S2, S3, Tmax and TOC (Espitalie et al, 1977; 1985; Peters, 1986). S1 is a measure of the content of hydrocarbons liberated at 300°C in an inert atmosphere (helium flow rate of 100 ml/min). These hydrocarbons represent those present in the original sample, that is, they were merely vaporized and swept into the flame ionization detector. The S2 peak, on the other hand, contains hydrocarbons vaporized during heating (usually at 25°C/min) between 300 and 600°C. This peak contains previously existing hydrocarbons which were not volatile at 300°C and hydrocarbon products from the pyrolysis of the sample. The S1 and S2 peaks are recorded as milligrams of hydrocarbon per gram of rock. The S3 peak is a measure of the organic carbon dioxide liberated from the sample at 300°C and during pyrolysis up to 390°C and is recorded as milligrams of CO_2 per gram of rock. This upper temperature is selected to preclude the inclusion of CO_2 derived from the thermal breakdown of carbonate minerals. Some samples do appear to yield inorganic CO_2 due to the presence of unusually unstable carbonate minerals and/or low pH, resulting in anomalous (and uninterpretable) S3 results. Tmax is the temperature at the top of the S2 peak or the temperature of maximum rate of evolution of pyrolysis hydrocarbons. As geological materials are thermally stressed to increasing levels, the amount of energy required to yield hydrocarbons on pyrolysis increases, and hence the temperature of maximum S2 evolution increases. Tmax is thus a measure of previous thermal stress, that is, maturity. Various correlations have been observed between Tmax and vitrinite reflectance (Durand and Oudin, 1980; Durand et al, 1983; Espitalie, 1985; Leckie et al, in prep). TOC or total organic carbon is measured on the same sample in a second oven operated at 600°C in air. The CO_2 from this combustion is algorithmically summed with the carbon in the hydrocarbon peaks (S1 and S2) to yield the TOC. All of these parameters are susceptible to contamination by volatile and/or pyrolyzable organic materials such as wood chips or fibres, oil based drilling mud and other drilling additives such as plastic lubra-glide beads.

Several derived parameters are calculated from the measured parameters noted above and these are used to interpret the level of thermal alteration and also the type of organic matter present. Production Index (PI=S1/[S1+S2], also called Transformation Ratio) is an indication of the extent to which geological conversion to bitumen has occurred and as such is a maturation indicator. The S1 peak represents the volatile and hence mobile hydrocarbons and as such is susceptible to migration effects both into (staining) and out of (expulsion) a rock. The S2/S3 ratio indicates the type of organic matter present. High values are typically observed for hydrogen-rich (and hence-oil prone) kerogens, whereas low values usually represent oxygen-rich, Type III organic matter which tends to be gas-prone. Because both S2 and S3 tend to decrease as the level of thermal maturity increases, this ratio becomes less meaningful at higher levels of maturation. Hydrogen Index (HI=S2*100/TOC) and Oxygen Index (OI=S3*100/TOC) are organic carbon normalized parameters which behave similarly to atomic hydrogen, oxygen and carbon in a Van Krevelen (1961) diagram. Thus HI versus OI (pseudo Van Krevelen diagram)

indicates the type of organic matter present if it is at relatively low levels of thermal alteration, and to a certain extent, the level of thermal alteration. Because a number of Rock-Eval type instruments do not yield the S3 parameter, Hydrogen Index is plotted against Tmax to yield similar organic type and maturation information. This type of data presentation is also useful if the S3 peak is unusable or unreliable.

Results

All of the Rock-Eval/TOC results are presented in Appendices A-J. In order to allow the maximum level of data integrity and flexibility in re-interpretation, these data have not been edited. As a result, some obvious errors are present in the data. For example, in a few instances, the sample was mechanically dropped between the pyrolysis and oxidation ovens, with the result that the TOC is very low and the HI and OI very high (often off scale). Alternatively, if the flame ionization detector did not ignite, then the S1 and S2 peak areas will be reported as zero but the TOC as non-zero. The sampling density should be sufficient that any given results can be ignored without loss of the overall sense of the source rock potential.

Discussion

GEOLOGICAL IMPLICATIONS. Elevated levels of thermal maturation occur in the shallowest samples in a number (but not all) of the wells examined indicating that significant erosion has occurred at the presently exposed surface. Near-surface Tmax values of 415 to 420°C (for example, Whitefish J-70) suggest that organic matter has been little altered, and hence not overlain by a significant amount of sediment. Near-surface samples in other wells have Tmax values in excess of 445°C (for example, South Tuttle N-05, Molar P-34, and Blackstone D-77) which suggests that significant erosion has occurred. The absolute extent of this erosion depends on the maturation gradient which appears to be highly variable in this area. For example, the entire oil window in the Blackstone D-77 well occurs over a depth interval of less than about 1800' (~550m), whereas in Ridge F-48, a portion of the oil window extends over more than 6000' (~1800m). This may reflect higher paleogeothermal gradients, because the wells that tend to have higher maturation gradients are those with thick Paleozoic sections. Alternatively, the wells drilled through basically Paleozoic sections have been drilled in tectonically active areas which may be associated with high geothermal gradients controlled by subsurface fluid flow. An additional possibility is that the Paleozoic section has a lower thermal conductivity, but the higher degree of compaction and generally higher carbonate content mitigate this.

The wells represented in this data set contain a number of significant unconformities besides that between the Paleozoic and Mesozoic. However, no thermal maturation discontinuities were observed within any of the ten wells sampled. This indicates that the currently measured maturation gradient was established at the time of the most recent loading (Tertiary/Cretaceous) and that the amount of erosion that occurred at any of the unconformities was less than the total thickness of sediments present during the last depositional cycle. This maximum erosional thickness estimate assumes that geothermal gradients were greater than or equal to the gradient at the time of maximum burial.

BLACKSTONE D-77. The Tmax and Production Index (PI) data indicate moderate to high levels of maturity at the surface in this well which spudded in the Carboniferous/Permian Jungle Creek Formation. The Tmax values exceed 500°C at about 2000' (~600m) indicating that the bottom 10,000 to 12,000' (~3000 to 3600m) are overmature. The very rapid rise in the level of thermal maturity as indicated by the Tmax values suggest that the geothermal gradient was much higher than average (that is, >25-35°C/km).

The residual TOC content in the upper portion of both the Ford Lake shale (1600', ~500m) and Imperial Formation (2800', ~850m), the Canol Formation (3600', ~1100m) and in the Road River and Mount Kindle formations (7600-9200', ~2300-2800m) indicates that all of these units had intervals wherein the original TOC exceeded 5%. Their current level of thermal maturity is presently beyond the oil window and probably beyond even generating any significant amount of gas for the lower units.

Small increases in the S2/S3 ratio occur in the Blackie, Hart River, Ford Lake and Imperial units. Lack of a corresponding increase in the HI is interpreted as resulting from the relatively high level of maturity. Some potential for gas generation may be attributed to these rocks.

WHITESTONE N-58. This entire well lies within the conventional oil window (Powell and Snowdon, 1983) with Tmax values ranging from about 435°C to about 455°C (about equivalent to a vitrinite reflectance range of 0.7% to 1.1%Ro). The Tmax values in the Ettrain Formation at the bottom of this well fall back from the trend extrapolated through the upper portion of the well. This probably reflects the presence of cavings into an organically lean zone. The Tmax trends smoothly through both unconformities bounding the Albian Whitestone River Formation. The PI in the uppermost 1000' (~300m) of the well are very high and are interpreted to have been caused by drilling mud additive. The PI follows a gradually increasing trend which corresponds well with the Tmax values from below the second casing point. A small increase in the PI values at about 2000' (~600m) in the Burnthill Creek Formation may indicate the presence of a small amount of staining.

The TOC content of several samples in the Burnthill Creek and Fishing Branch formations exceeds 4% and indicates the presence of variable amounts of carbonaceous or coaly debris. Below these units the TOC content decreases more or less steadily from about 2% to much less than 1% in the Ettrain Formation.

The S2/S3 ratios are scattered or low through most of this well reflecting overall low S3 contents and frequently low S2 contents. The HI values consistently fall into the 100 to 200 range expected for Type III or mature to overmature organic matter. Although the level of thermal maturity in this well is ideal for petroleum generation, no organic-rich, oil-prone source rocks are present. The overall source petroleum potential is restricted to some gas generation capacity in the central portion of this well.

BIRCH B-34. The Tmax values in the uppermost 950' (~290m) are very high and step down in two steps. These results may be interpreted in several ways. The sudden decrease at the top of the Jungle Creek Formation (Paleozoic unconformity) may indicate that the Mesozoic sediments in this well contain dominantly reworked organic matter with the supply of the high maturity kerogen coming from the vicinity of the Blackstone D-77 well to the south. This explanation is not very satisfactory because the level of maturity in the Mesozoic sections of adjacent wells (Chance L-08 and East Porcupine F-18) is relatively low. A second possible explanation is that high maturity Mesozoic sediments have been lifted along high angle reverse faults with one repeat section present at the base of the Whitestone River Formation. Again, the adjacent wells do not contain high maturity Mesozoic rocks and furthermore, the Mesozoic section has been inferred to thicken to the north and west (Dixon, pers. comm.). If this hypothesis is correct, high temperatures similar to those inferred for the Paleozoic section in the Blackstone well would have to be operative for the Mesozoic at the top of this well. However, the Tmax values for the Paleozoic section of the Birch B-34 well show a normal to low gradient. A third possible explanation of the observed Tmax values is that the samples from the upper portion of the well have been contaminated with a high maturity organic material. The TOC values are somewhat above those in the rest of the well and the well history indicates that 100 bags of "carbonox" and 22 bags of "lignox" were added to the drilling mud at some unspecified interval or intervals.

The S2/S3 and HI data indicate that the uppermost 100 to 150' (~30-45m) of the Blackie Formation contain Type II, marine organic matter (about 3-5%). Anomalous S2/S3 and TOC values also occur in the Chance sandstone member, but there is no accompanying increase in the HI. Significant amounts of lost circulation material was added to the mud when the drilling was at about the depth of these anomalies.

CHANCE L-08. The Tmax and PI trends both indicate a more or less smooth increase in the level of maturity through this well with Tmax ranging from about 435°C to 455°C (about equivalent to 0.7 to 1.1% Ro). The PI indicates the stained interval in the Chance sandstone member and also a hydrocarbon-depleted zone in the top of the immediately underlying Ford Lake shale.

The TOC content is low to moderate throughout the well with a notable increase to about 4% in the Ford Lake shale.

The S2/S3 and HI results indicate that Type III organic matter dominates all samples in this well except those from the Ford Lake shale and possibly the Hart River Formation. The level of thermal maturity, organic richness and TOC content of the Ford Lake shale are ideal and this unit must be considered as an excellent potential source rock. The occurrence of producible oil immediately overlying this unit suggests that the Ford Lake shale has in fact been the source of the Chance sandstone oil.

EAST PORCUPINE F-18. Tmax is almost constant through this well between 435°C and 440°C. Similarly, the PI is uniformly low until below the Paleozoic unconformity. These results

indicate a very low geothermal gradient and moderate overall level of thermal maturity (about equivalent to vitrinite reflectance values of 0.7% to 0.8% Ro).

The TOC contents range up to about 2.5% with a few samples above this indicating an increased concentration of carbonaceous or coaly material.

The S2/S3 ratios are high but scattered in the Albian Whitestone River Formation, but the HI values are consistently below 200 throughout the well. There is a distinct increase in the HI at the top of the Hart River Formation, but the magnitude is so small that the organic matter must still be dominated by Type III (terrestrial) organic matter. No oil-prone source rocks are apparent in this well. Gas generation would be expected.

SOUTH TUTTLE N-05. This well spuds in the Devonian Imperial Formation. The shallowest samples available (starting at 1400' or ~427m) are at a very high level of thermal maturity (Tmax of about 460°C or equivalent to 1.2% Ro). The very low S2 yields preclude determination of a definitive maturation trend, so no geothermal gradient can be inferred for this well. The PI values also start out quite high but they follow a more or less smooth trend from 1400' (~427m) to about 5000' (~1524m) when they are high but scattered.

The TOC values are very low for the entire well except the Canol Formation where they rise to as much as 4%. This indicates that before thermal maturation, this unit contained in excess of 10% TOC most of which has now been lost in the form of bitumen and gas.

Both the HI values and S2/S3 ratios are low and/or scattered due to the high level of thermal maturity. The elevated residual TOC content of the Canol Formation is the only indication that oil-prone organic matter was once present in the section represented in this well.

ELLEN C-24. The Tmax values for the available sample interval in this well (down to 5400' or ~1646m) fall into the 430°C to 445°C range, indicating a moderate level of thermal maturity. There is a definite increasing trend below about 2600' (~792m) but a reverse trend between the surface and 2600'. This reverse maturation trend may reflect the presence of reworked organic matter being deposited in the upper half of this well with the source area being excavated to supply material of ever increasing rank. The PI values parallel the Tmax trends reasonably well.

High TOC values occur through the Burnthill Creek and Fishing Branch formations and in the upper part of the Whitestone Formation which also shows an increase in HI and S2/S3 values. Because there is no obvious indication for a different depositional environment of this interval, these anomalous values have been interpreted as most likely due to the presence of a drilling additive. The depression of the Tmax values over these intervals is consistent with this interpretation.

The S2/S3 and HI values indicate the presence of Type III organic matter or contamination only. No oil-prone source rocks appear to be present. Again gas generation would

be expected from the organic carbon rich intervals, but the quantities would be expected to be modest because of the relatively low level of thermal maturation.

WHITEFISH J-70. The Tmax values increase smoothly from about 415°C to 445°C through this well. The PI values are very high over the upper 2000' (~600m), probably reflecting a small amount of contamination appearing in the S1 peak. The overall hydrocarbon yield (S1 + S2) is quite low throughout the well and the PI begins to decrease markedly at the casing point (~900' or 275m). The low to moderate level of maturity indicated by the PI is in good agreement with Tmax values for the bottom two-thirds of the well.

The TOC content is relatively constant at about 1% through much of the section with a few samples in the upper portion of the Fishing Branch Formation showing an increase. The average TOC through the Parkin Formation is also somewhat higher (at about 2%) than for most of the rest of the well.

The S2/S3 ratio increases and becomes scattered in the lower half of the hole, but the HI remains below 200 throughout the well indicating that the organic matter is dominated by Type III terrestrial debris. No oil-prone source rocks are apparent in this well, although gas generation cannot be precluded.

MOLAR P-34. The Tmax trend in this well increases smoothly from 445°C (~0.9% Ro) to over 500°C (>1.5% Ro). The mature to overmature trend is not well reflected in the PI which remains more or less constant through the well. The Mesozoic rocks in this well are overmature at a present depth of 4000' (~1220m) or less and the maturation gradient appears to be higher than that in most of the other Mesozoic sections sampled in this study. This indicates the presence of a somewhat higher geothermal gradient (and heat flow) existing in either the Cretaceous or Tertiary strata at this location. This is in contrast to both Whitefish J-70 and Ridge F-48 (the closest wells also analyzed in this study) which have normal to lower than normal maturation gradients and hence lower than normal inferred geothermal gradient. The relatively high level of maturity at the surface in this location indicates that substantial erosion has occurred. The absolute amount may actually be less than that indicated by the maturity of similar ages of rock in wells to the south and east, however, because of the higher inferred geothermal gradient.

Again, except for the Parkin Formation which shows a slightly higher TOC at about 2%, all of the samples contain a generally constant and low amount of organic carbon.

The S2/S3 ratio and HI both indicate that there is little or no oil generation potential left in any of the section sampled by this well. This probably reflects the type of organic matter but the low HI values would also be expected at the high level of maturity of the bottom two-thirds of this well. The Tmax versus HI plot for this well is a good model for the expected behaviour of mature to overmature Type III organic matter.

RIDGE F-48. The Tmax values in this well range from about 440°C to 450°C (about equivalent to vitrinite reflectance values of 0.80% to 1.0% Ro). A generally smooth increase

occurs through both unconformities surrounding the Jurassic Porcupine River Formation. The PI values also show a slight increase toward the bottom of the hole. The maturity gradient and inferred geothermal gradient for this well are quite low.

The TOC content rises to about 2% toward the bottom of the Whitestone River Formation, but are otherwise about 1% or less.

The HI results are uniformly low through the well at about 100 indicating that all of the organic matter in this well is Type III terrestrial. The S2/S3 ratio is scattered in two intervals in the Whitestone River Formation and the Porcupine River Formation, and otherwise low in concordance with the HI. The entire section represented in this well is within the conventional oil window and thus gas generation would be expected from the Type III organic matter. No oil-prone source rocks are present.

Conclusions

The level of thermal maturity represented in the wells studied in Eagle Plain range from immature to highly overmature. In most but not all cases, the overmature sections are in Paleozoic rocks, while the immature samples are always from the Mesozoic. High levels of thermal maturity at the present surface attest to significant erosion in some wells. No thermal maturation discontinuities were observed at unconformities within the sections sampled indicating that the present level of thermal alteration was established during the last depositional or loading event. Heat-flow patterns inferred from the maturation gradients are complex and reflect the complex structural geometry of the basin and immediately surrounding rocks. The maturity gradients and high absolute maturity values recorded in this study tend to be in wells around the edges of Eagle Plain, suggesting that the heat flow was substantially higher on the edges (and possibly outside Eagle Plain) than in the centre where absolute maturity gradients and absolute maturities are low.

The TOC content is generally average to low, but several formations and parts of formations contain and/or are inferred to have once contained relatively high TOC contents (5 to 10% or more). Most of the organic-rich rocks probably contained oil-prone Type II organic matter, but are now overmature. Relatively few examples of good quality oil-prone source rocks were observed, but these included the upper portion of the Blackie Formation in the Birch B-34 well, the Ford Lake shale in the Chance L-08 well, and possibly the upper portion of the Whitestone River Formation in the Ellen C-24 well.

The absence of observable thermal maturation discontinuities at the unconformities in the wells studied indicates that maximum thermal stress occurred during the last loading phase. Oil and gas would thus have been generated and expelled during that loading event. Structures associated with the most recent uplift and erosion events would have to have received oil from previously existing reservoirs rather than directly from a source rock.

Acknowledgements

Two summer students, Grant Needham and James Rippel, sampled the excess bagged cuttings, prepared the samples and ran many of the Rock-Eval/TOC analyses. R. Fanjoy and S. Achal provided technical assistance. All formation tops and many helpful comments were provided by J. Dixon.

List of figures

Appendices

References

Durand, B. and J.L. Oudin (1980) Exemple de migration des hydrocarbures dans une serie deltaique: le delta de la Mahakam Kalimantan Indonesie; Proc. 10th World Petroleum Congress, v2, p3-12, 1980, Heyden.

Durand, B., M. Parratte and Ph. Bertrand (1983) Le potential en huile de charbons: Une approche geochemique; Revue de l'Institut Francais du Petrole, v38/6, p709-721.

Espitalie, J. J.L. Laporte, M. Madec, F. Marquis, p. Leplat, J. Paulet et A. Boutefeu (1977) Methode Rapide de caracterisation des roches meres de leur potential petrolier et de leur degre d'evolution; Revue de l'Institut Francais du Petrole, v 32/1, p23-42.

Espitalie, J., G. Deroo and F. Marquis (1985) Rock-Eval pyrolysis and its applications; Institut Francais du Petrole preprint #27299, 132p.

Leckie, D.A., W.D. Kalkreuth and L.R. Snowdon (in prep) Results of Rock-Eval/TOC analysis of a core through the Lower Cretaceous: Monkman Pass area, northeastern British Columbia; submitted to A.A.P.G. Bulletin

Peters, K.E. (1986) Guidelines for evaluating source rock using programmed pyrolysis; American Association of Petroleum Geologists Bulletin, v70/3, p318-329.

Van Krevelen, D.W. (1961) Coal: Typology, chemistry, physics, constitution; Amsterdam, 514p.

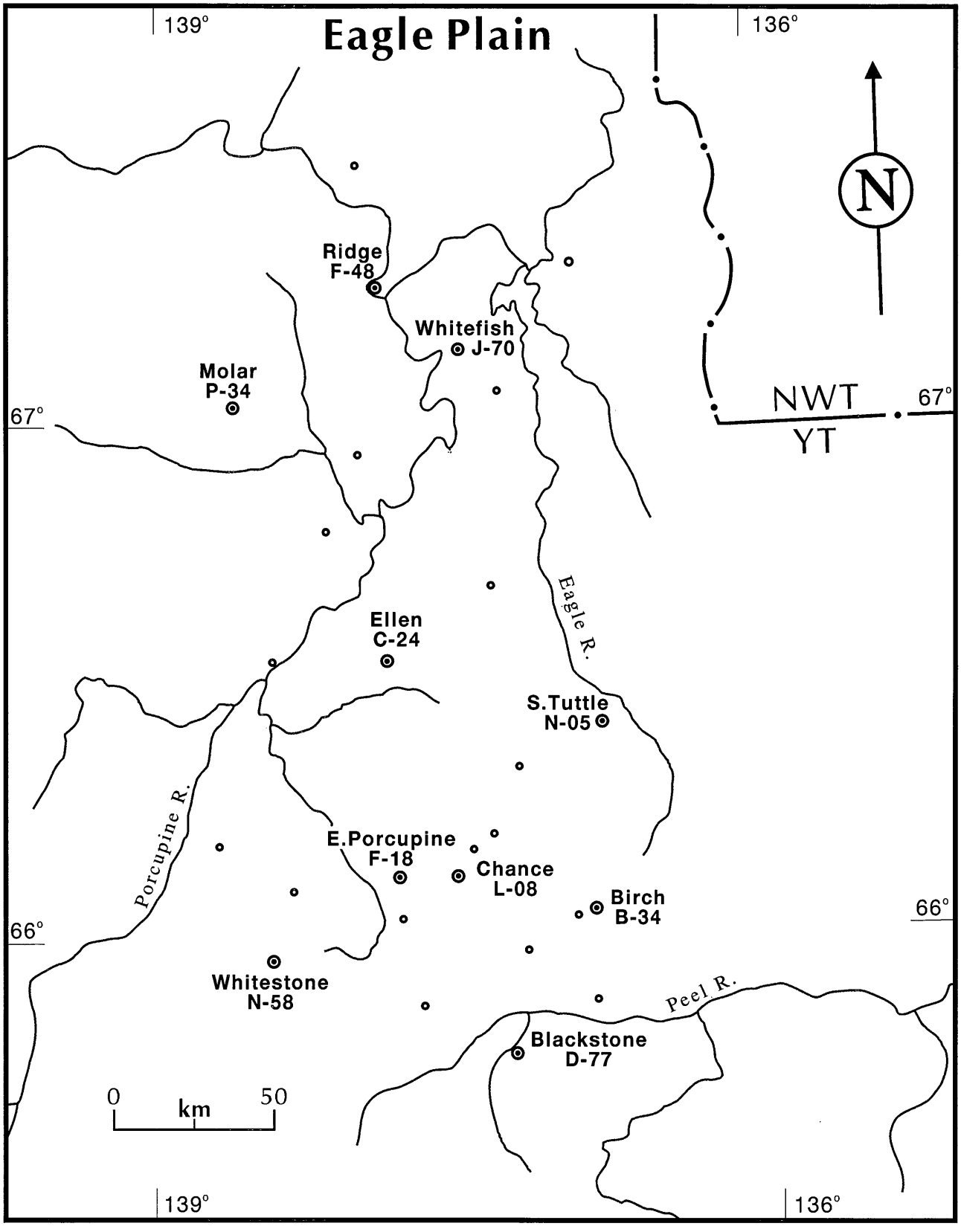
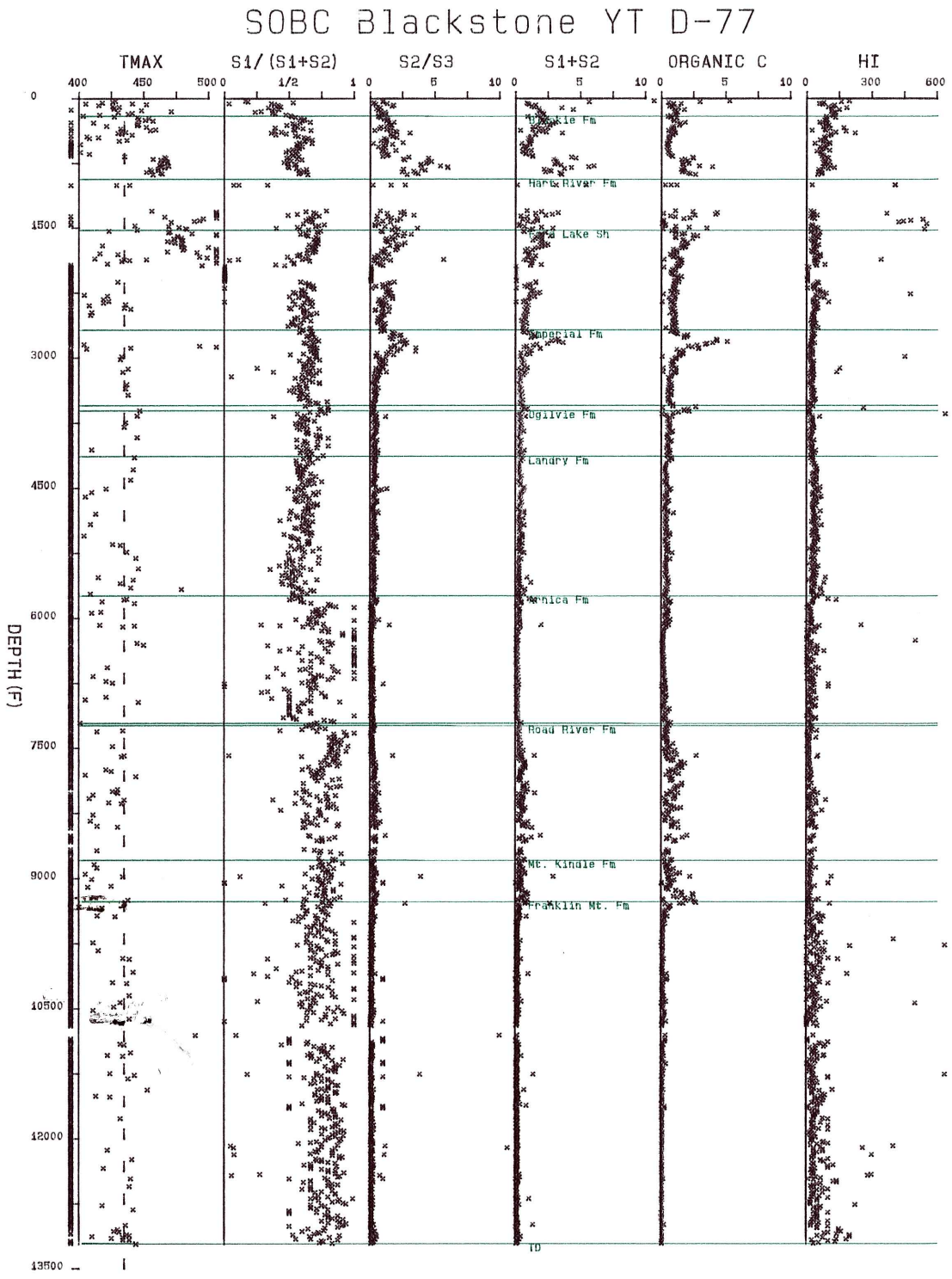
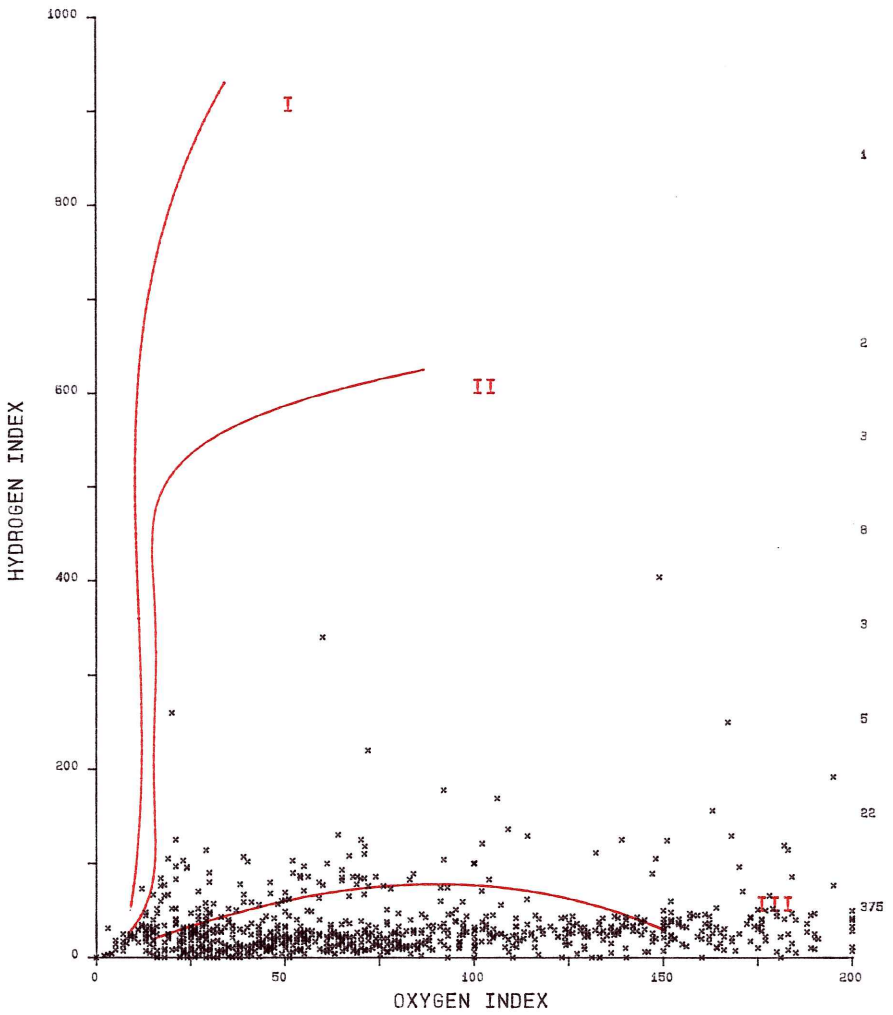
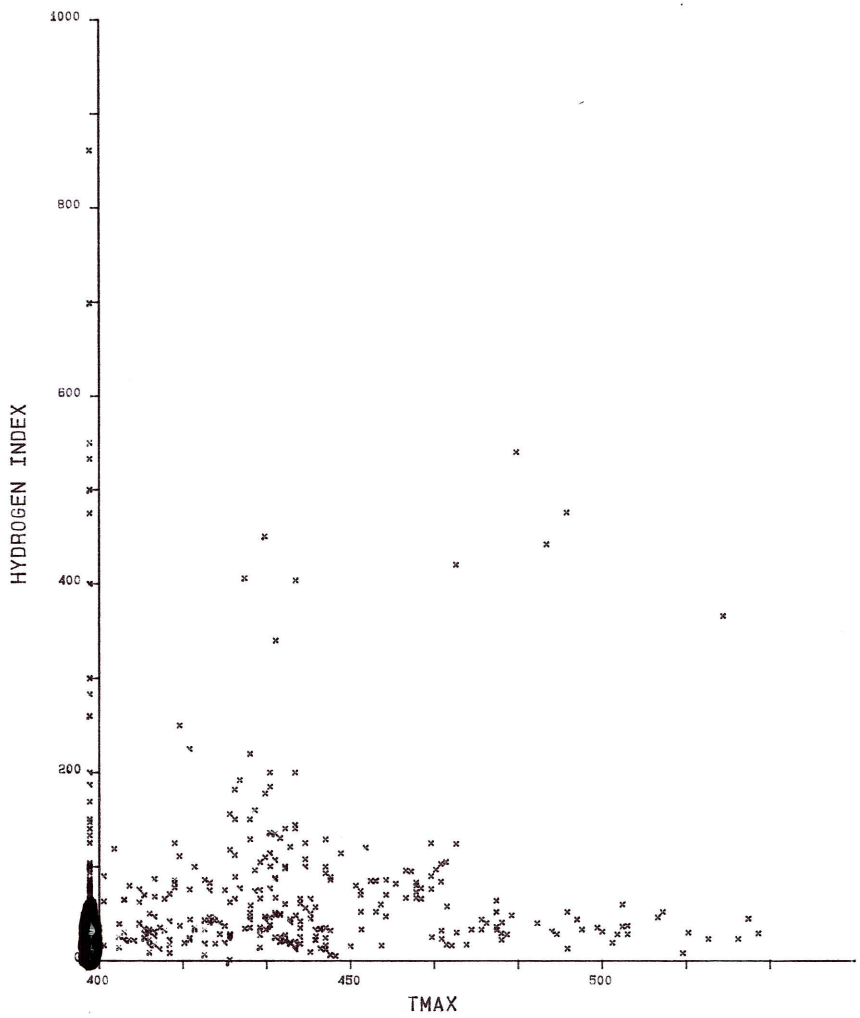


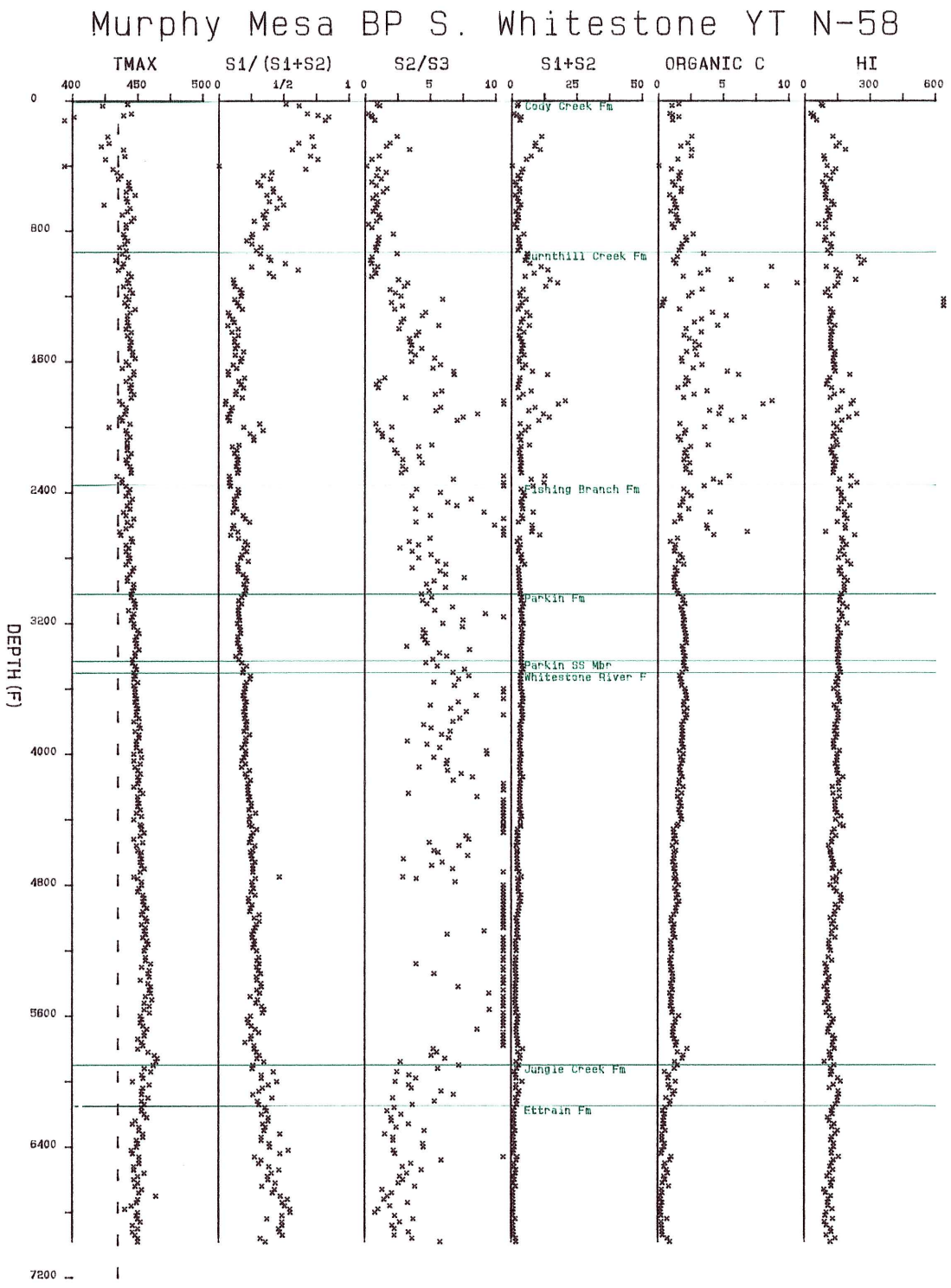
Figure 1. Index map showing location of boreholes in the Eagle Plain area and identifying wells sampled in this study.


SOBC Blackstone YT D-77
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
DEPTH (F)
0
1500
3000
4500
6000
7500
9000
10500
12000
13500
Hart River Fm
Bonnet Plume Fm
Landry Fm
Road River Fm
Mt. Kindle Fm
Franklin Mt. Fm
TD

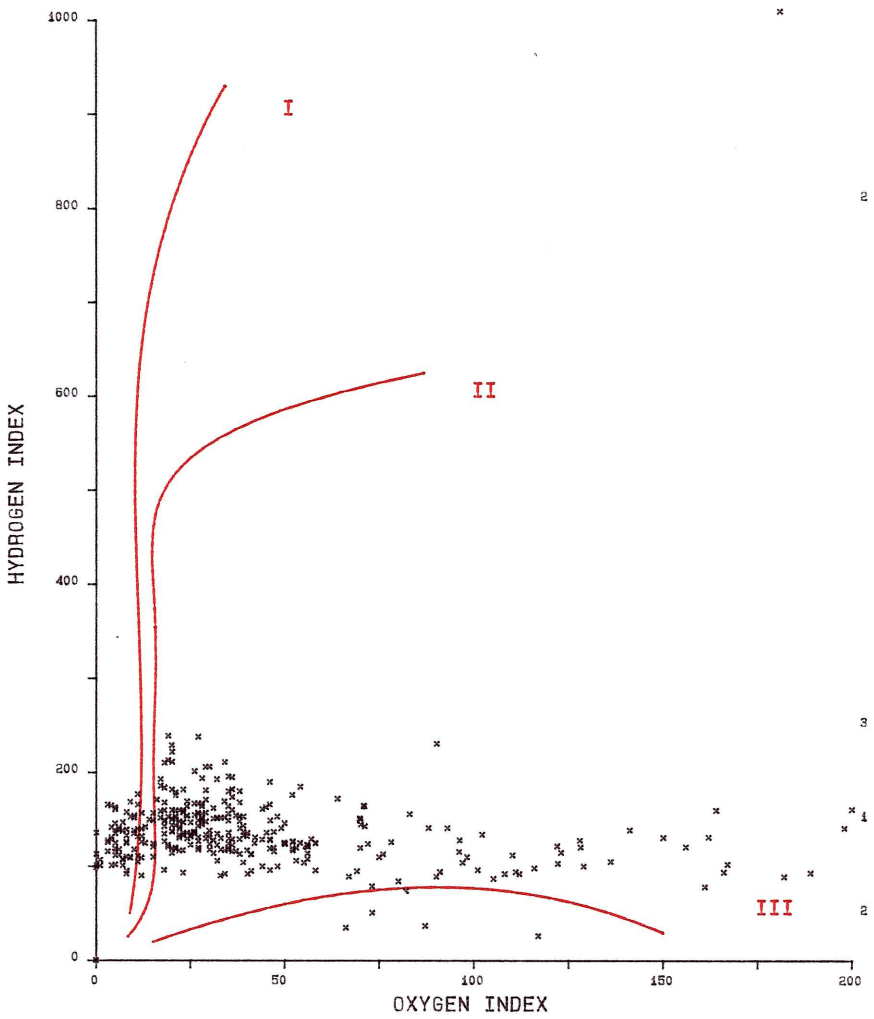
SOBC Blackstone YT D-77

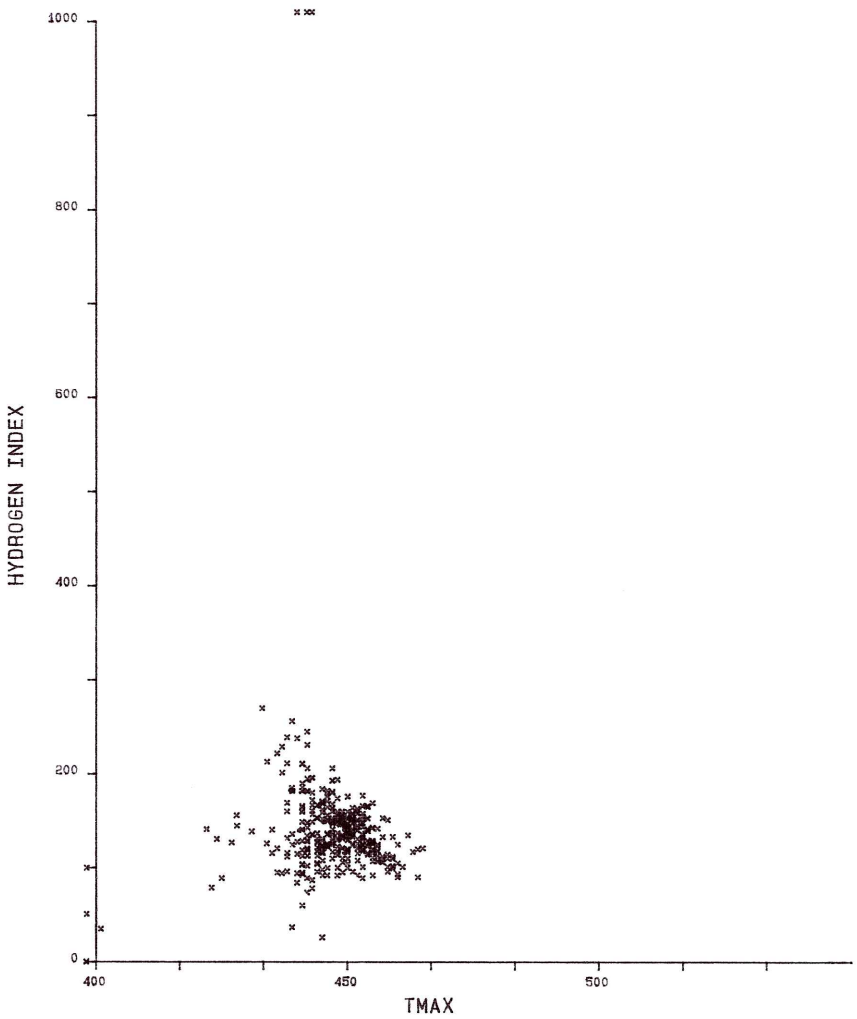


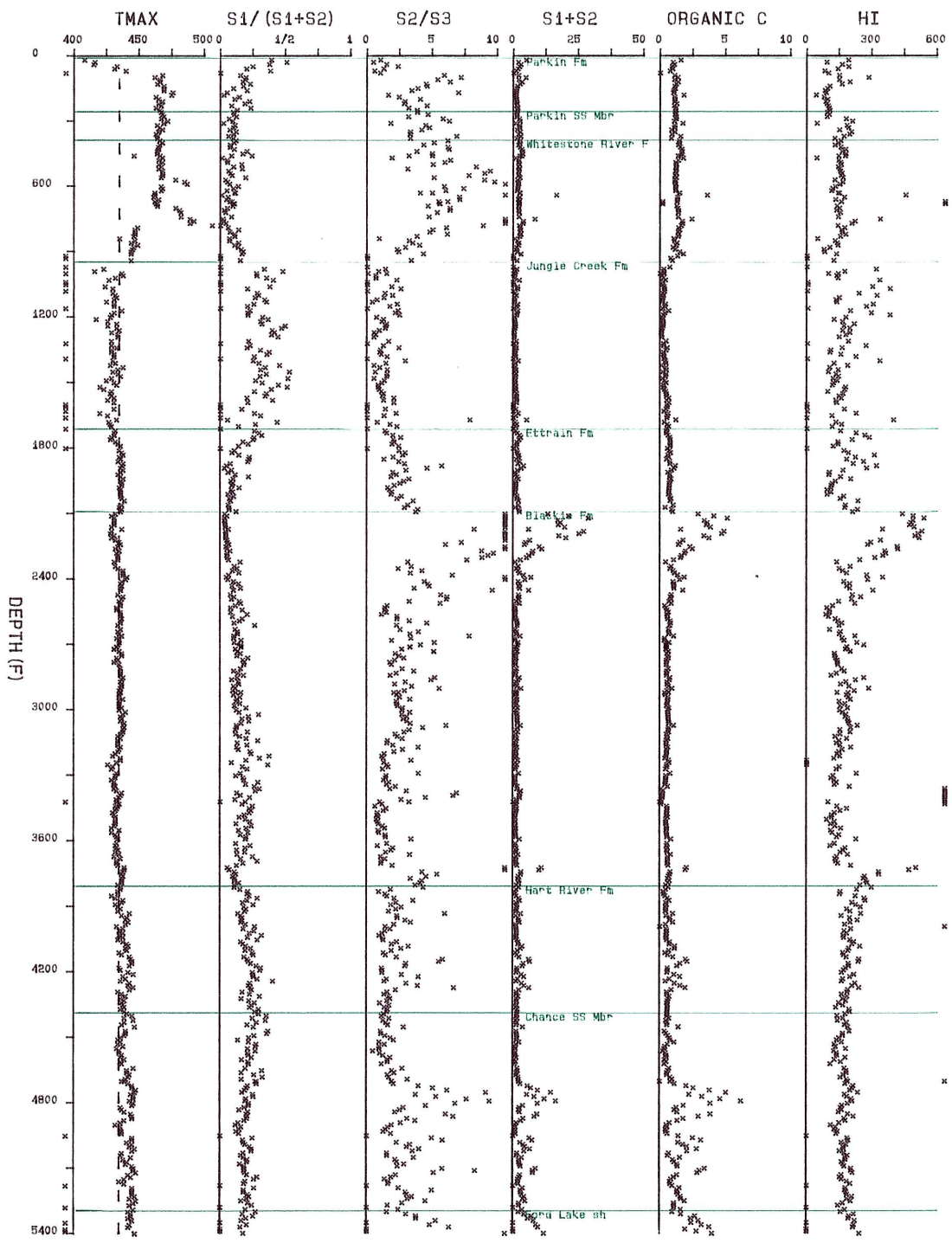



Murphy Mesa BP S. Whitestone YT N-58
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
25
50
0
5
10
0
300
600
0
800
1600
2400
3200
4000
4800
5600
6400
7200
DEPTH (F)
Cody Creek Fm
Kiskatinaw Fm
Fishing Branch Fm
Parkin Fm
Parkin SS Mbr
Whitestone River F
Jungle Creek Fm
Ettrain Fm

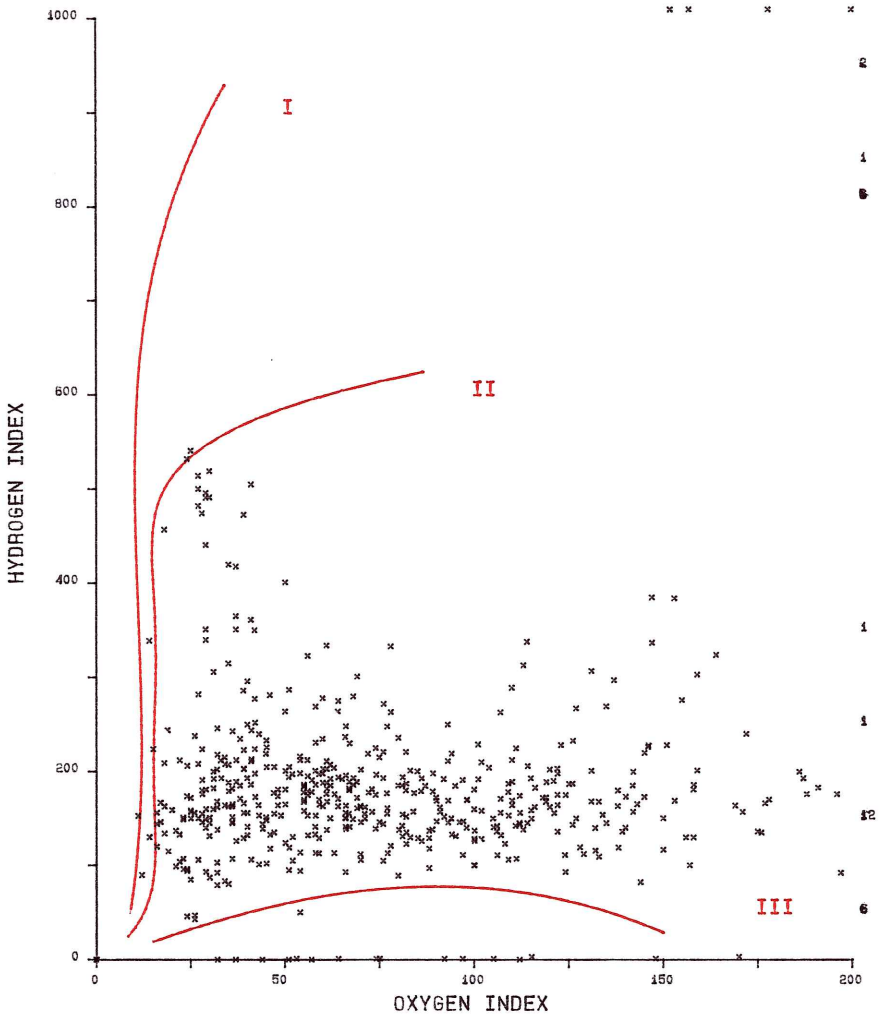
Murphy Mesa BP S. Whitestone YT N-58

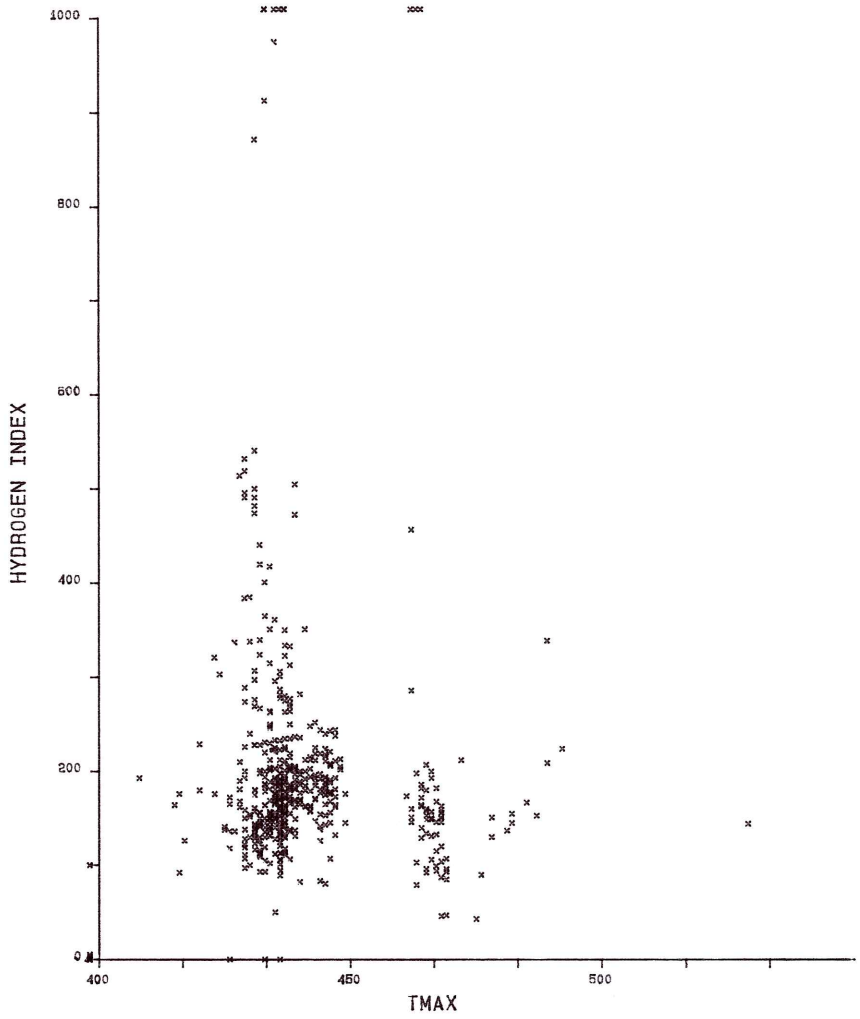


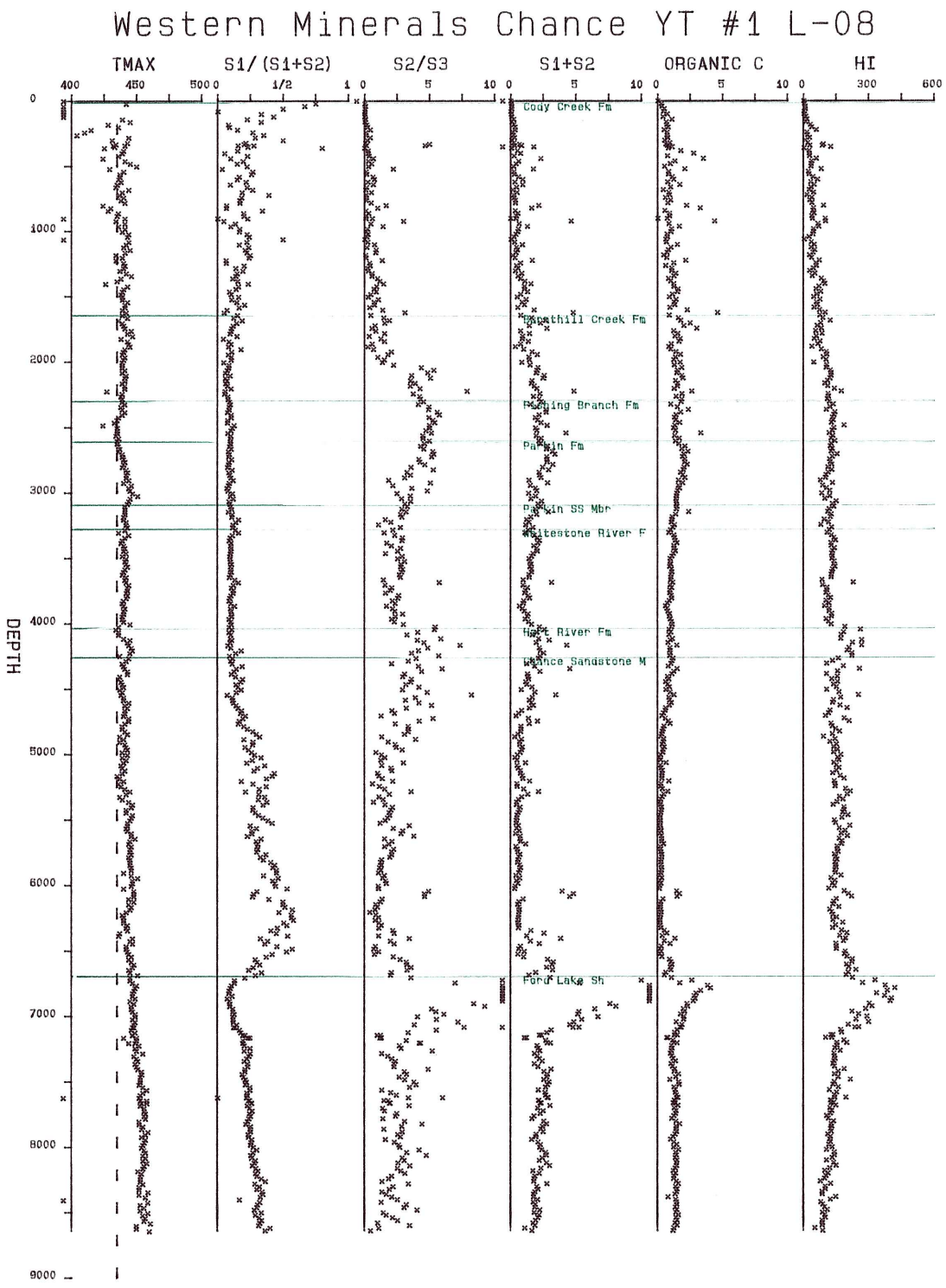



Socony Mobil WM Birch B-34
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
25
50
0
5
10
0
300
600
0
600
1200
1800
2400
3000
3600
4200
4800
5400
DEPTH (F)
Parkin Fm
Parkin SS Mbr
Whitestone River F
Jungle Creek Fm
Ettrain Fm
Blaklim Fm
Hart River Fm
Chance SS Mbr
Bond Lake sh

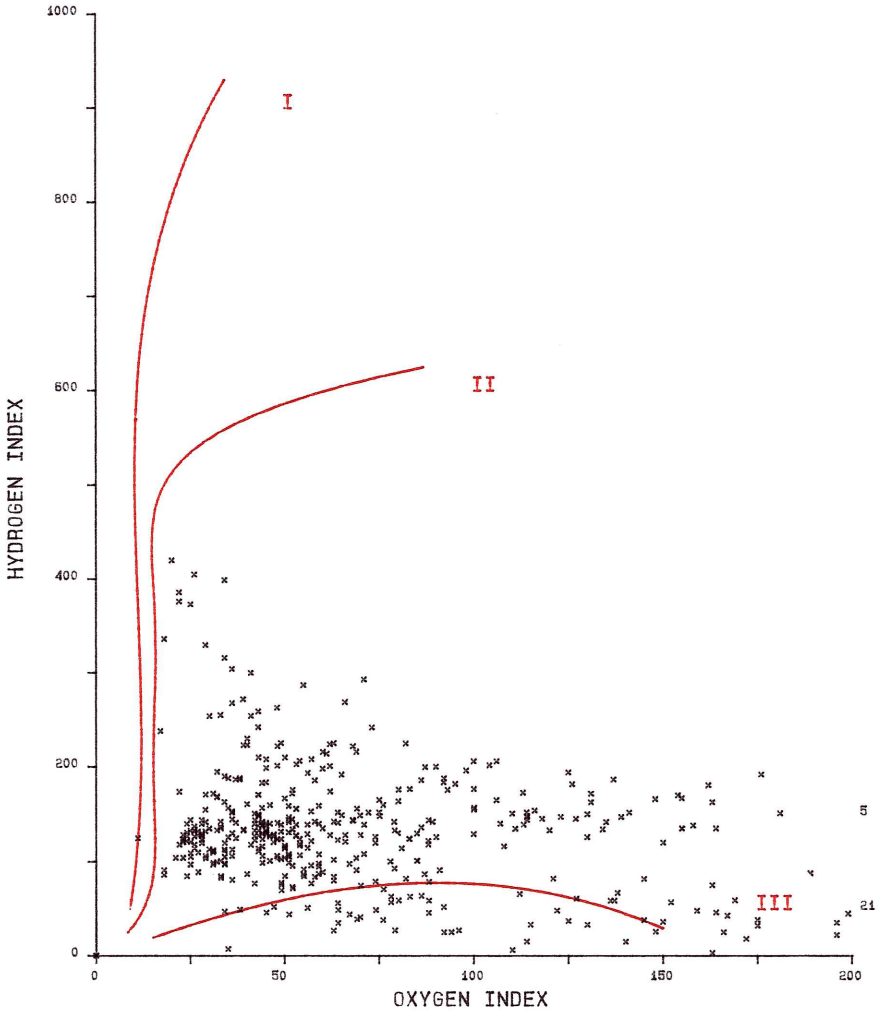
Socony Mobil WM Birch B-34

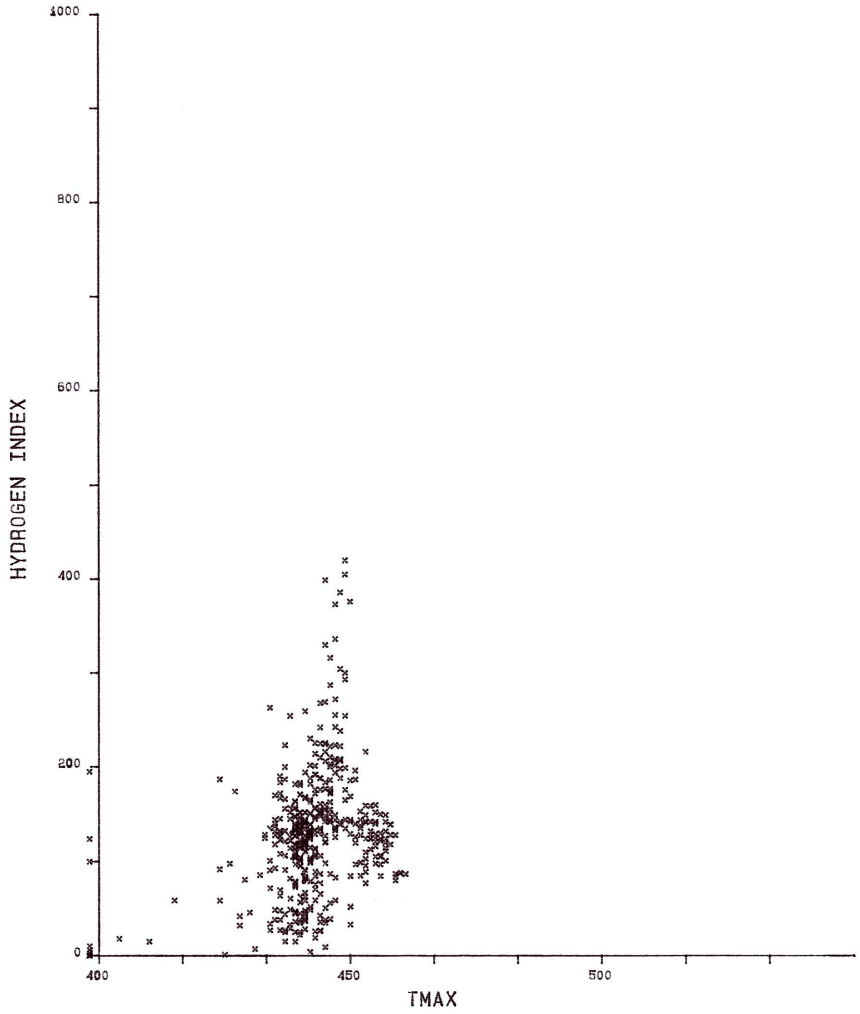


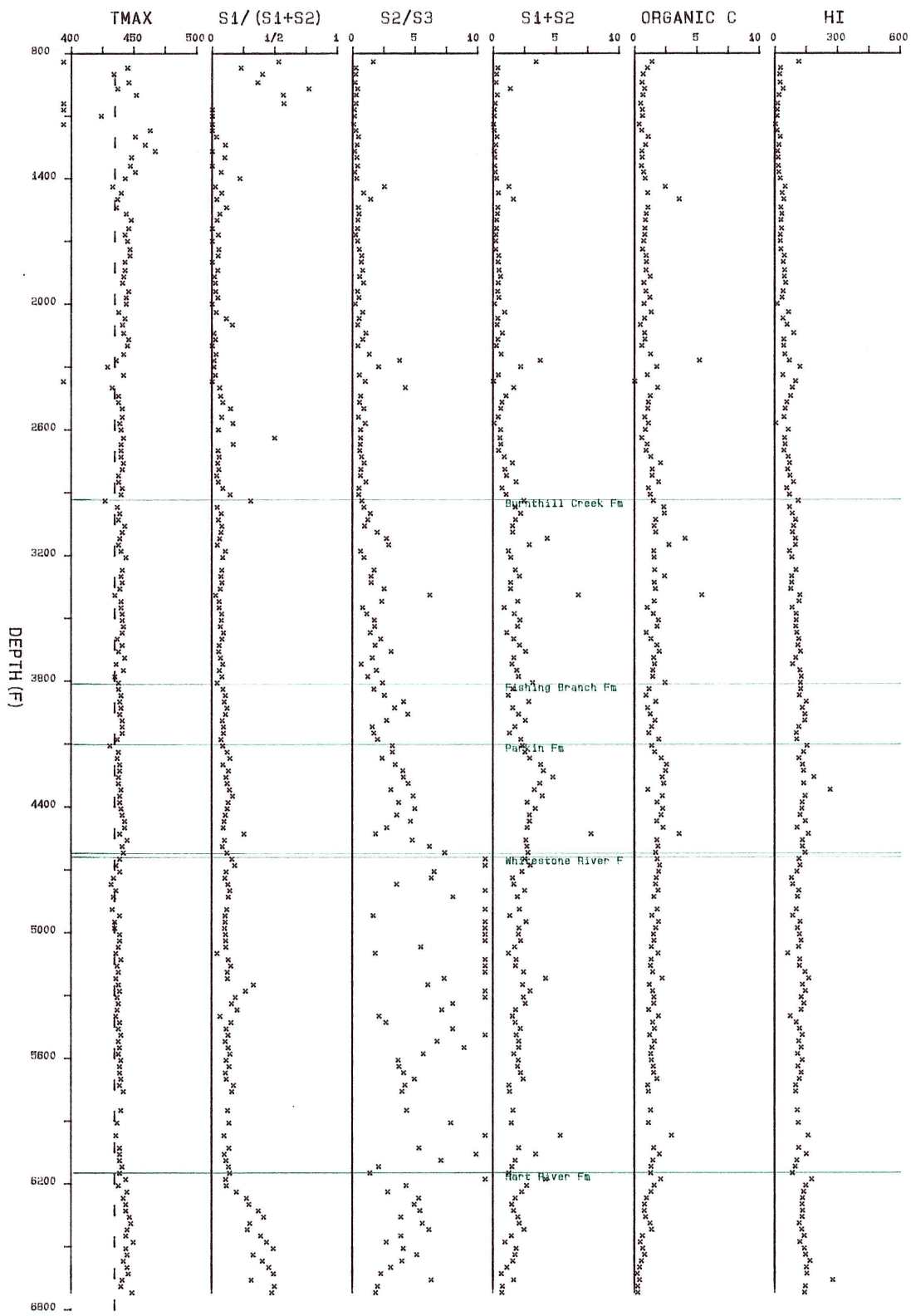



Western Minerals Chance YT #1 L-08
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
DEPTH
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
Cody Creek Fm
Smithill Creek Fm
Fishing Branch Fm
Parkin Fm
Parkin SS Mbr
Whitestone River F
Hart River Fm
Chance Sandstone M
Ford Lake Sh

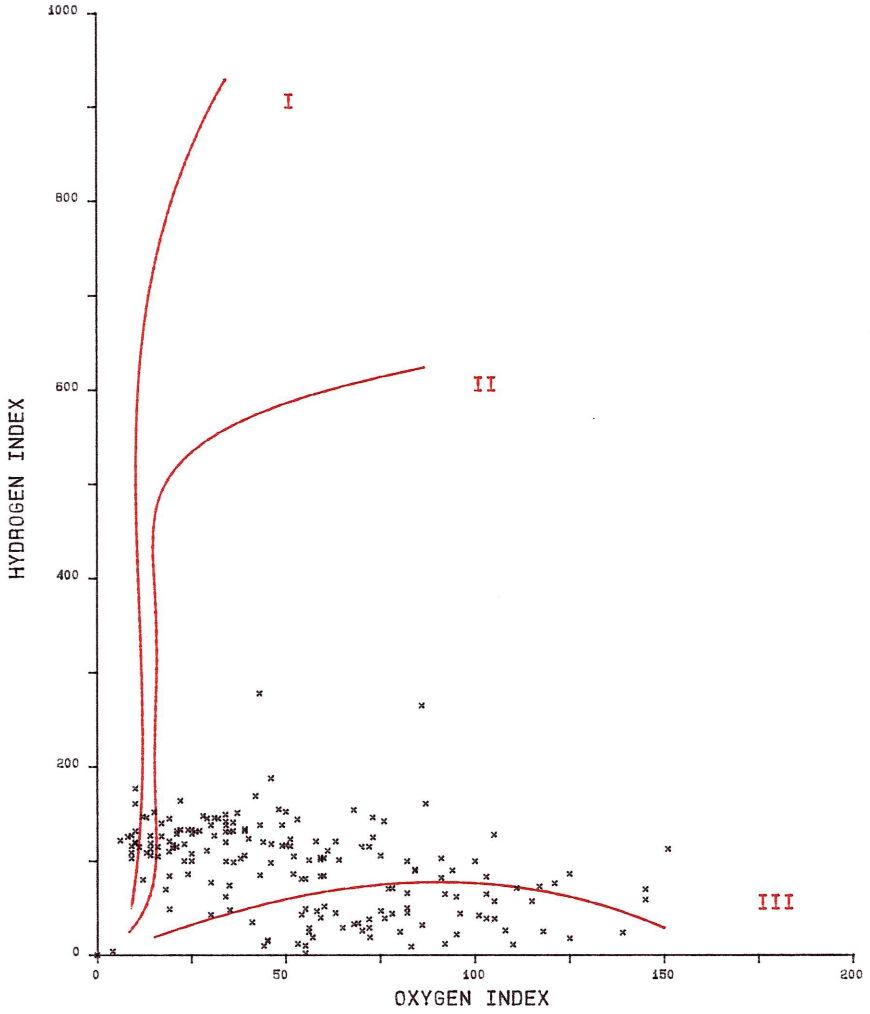
Western Minerals Chance YT #1 L-08

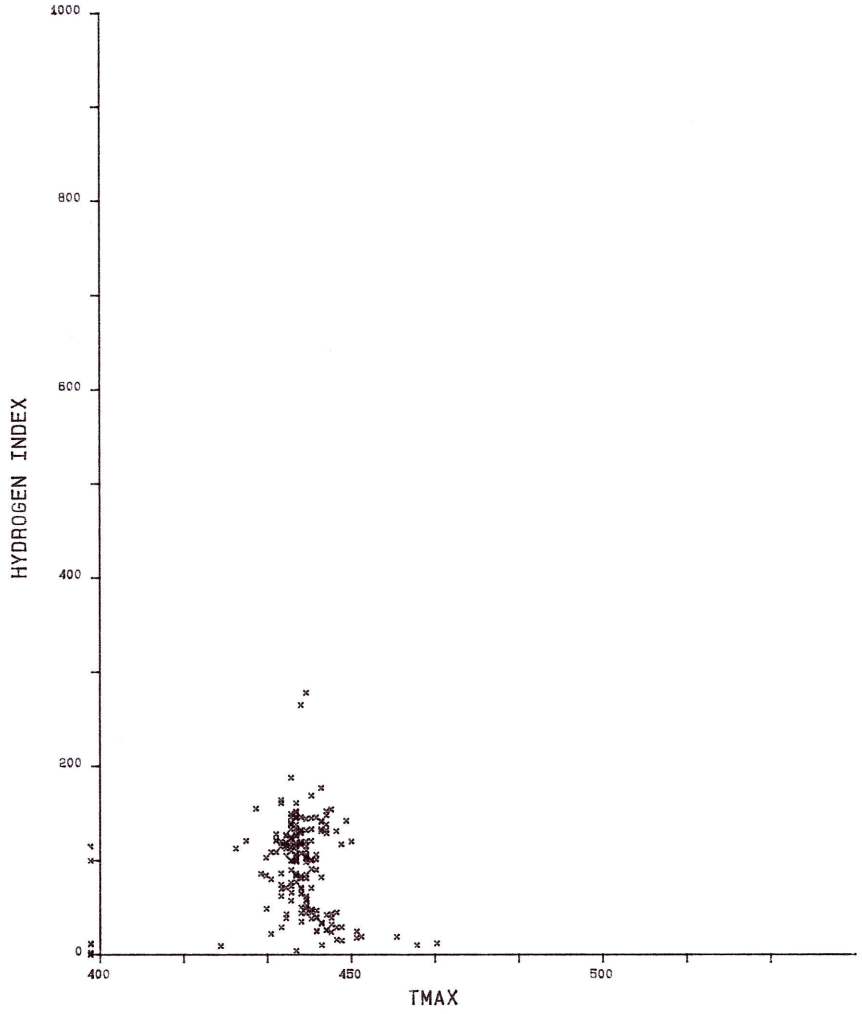


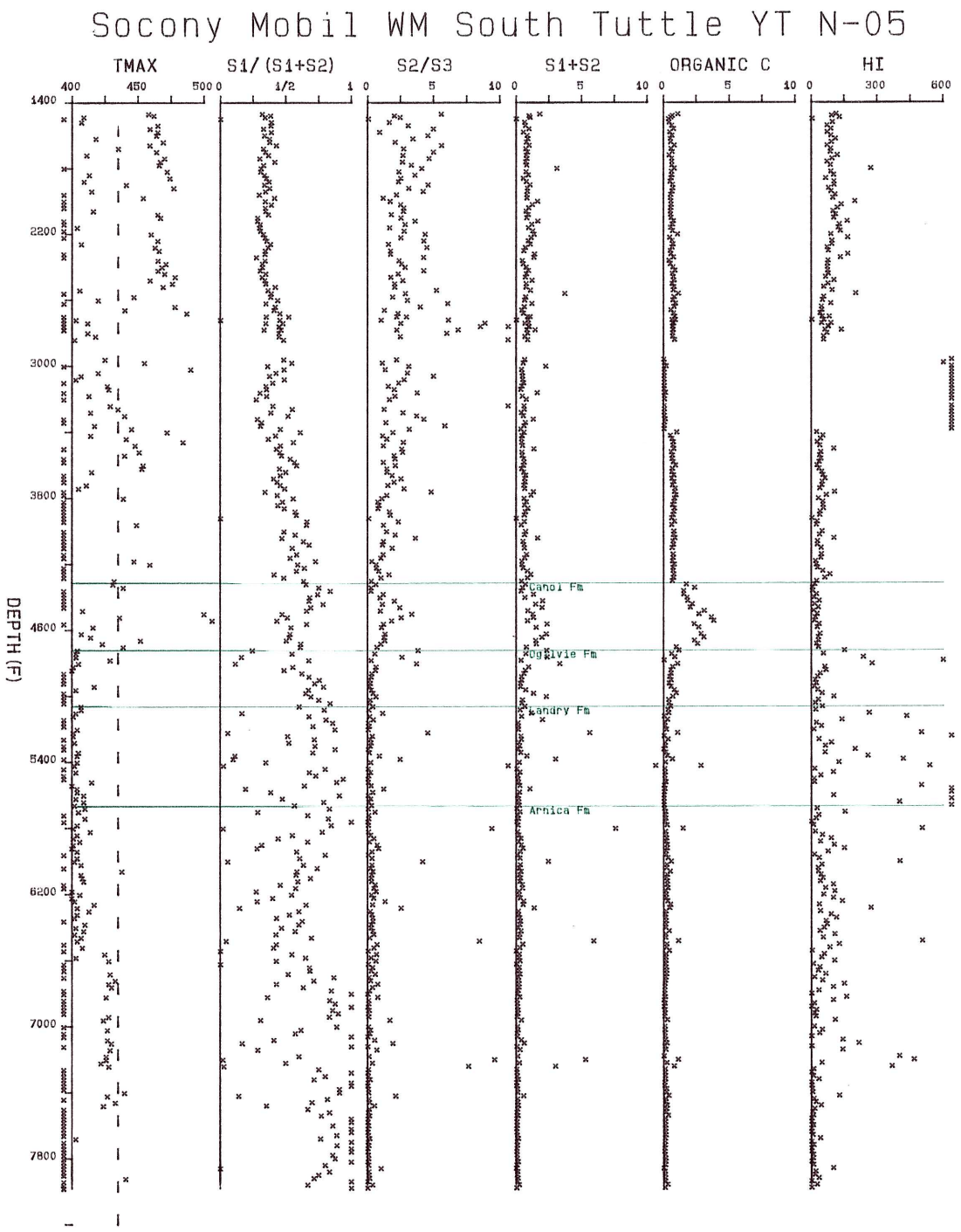



Chevron SOBC WM E. Porcupine YT F-18
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
800
1400
2000
2600
3200
3800
4400
5000
5600
6200
6800
DEPTH (F)
Bullmithill Creek Fm
Fishing Branch Fm
Parkin Fm
Whitestone River F
Hart River Fm

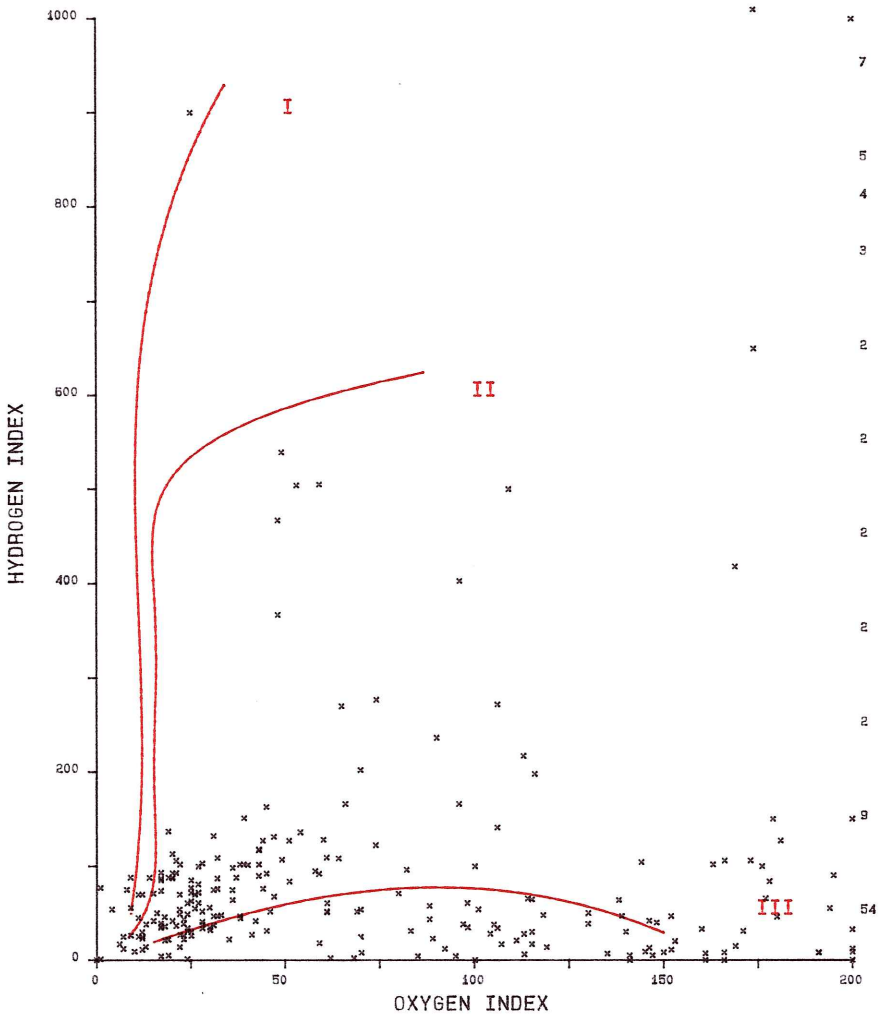
Chevron SOBC WM E. Porcupine YT F-18

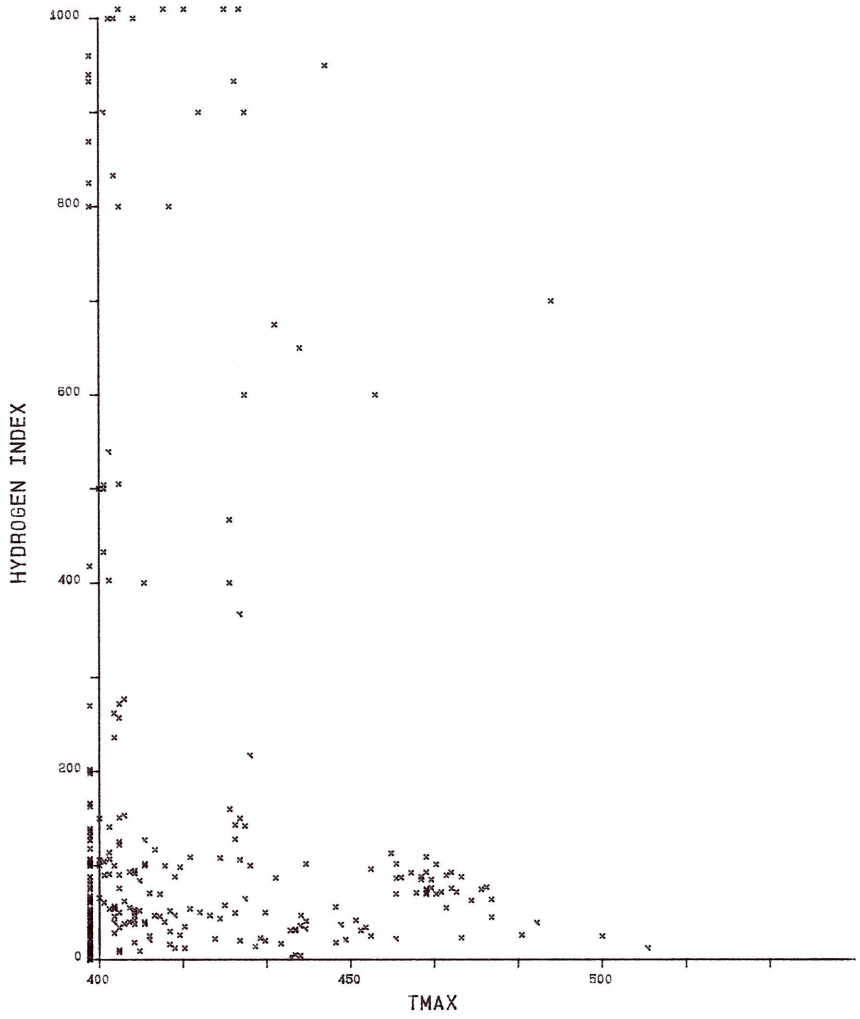


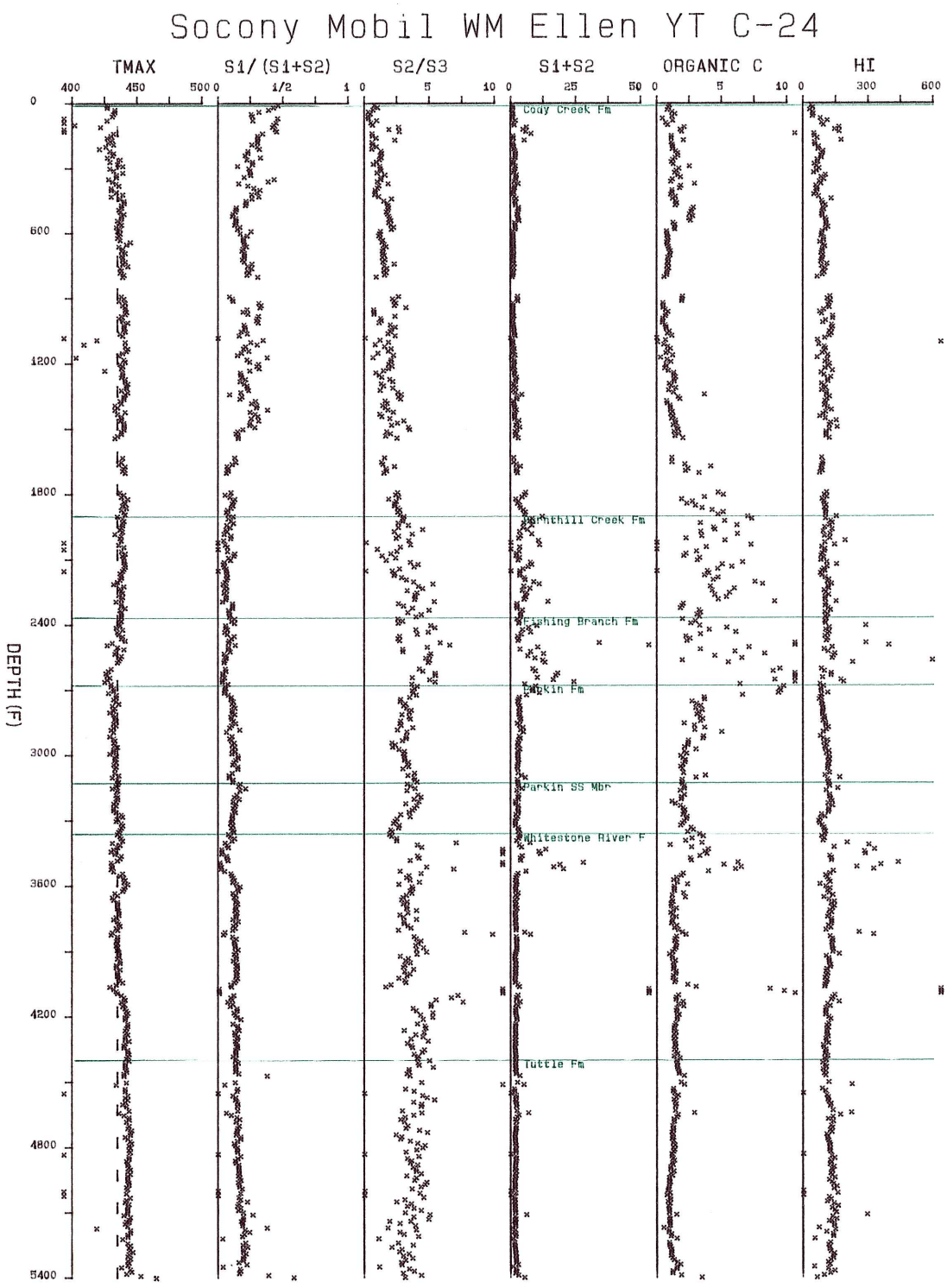



Socony Mobil WM South Tuttle YT N-05
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
1400
2200
3000
3800
4600
5400
6200
7000
7800
DEPTH (F)
Canol Fm
Ogilvie Fm
Landry Fm
Arnica Fm

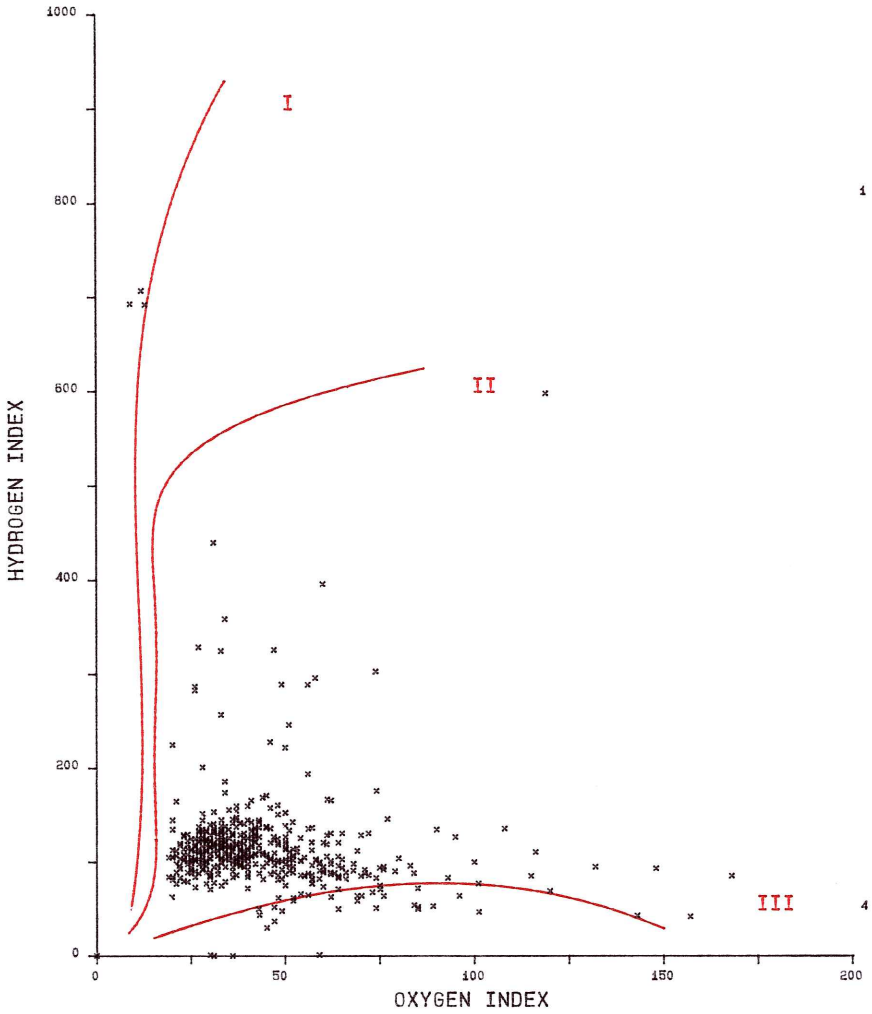
Socony Mobil WM South Tuttle YT N-05

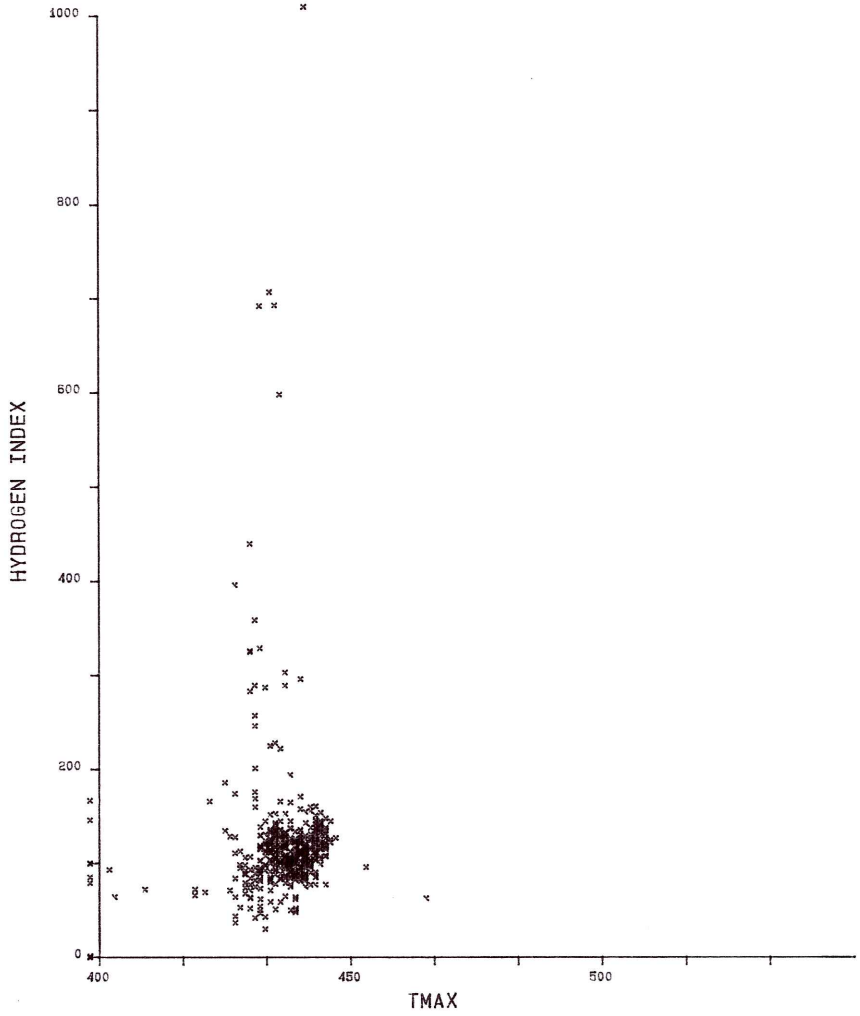


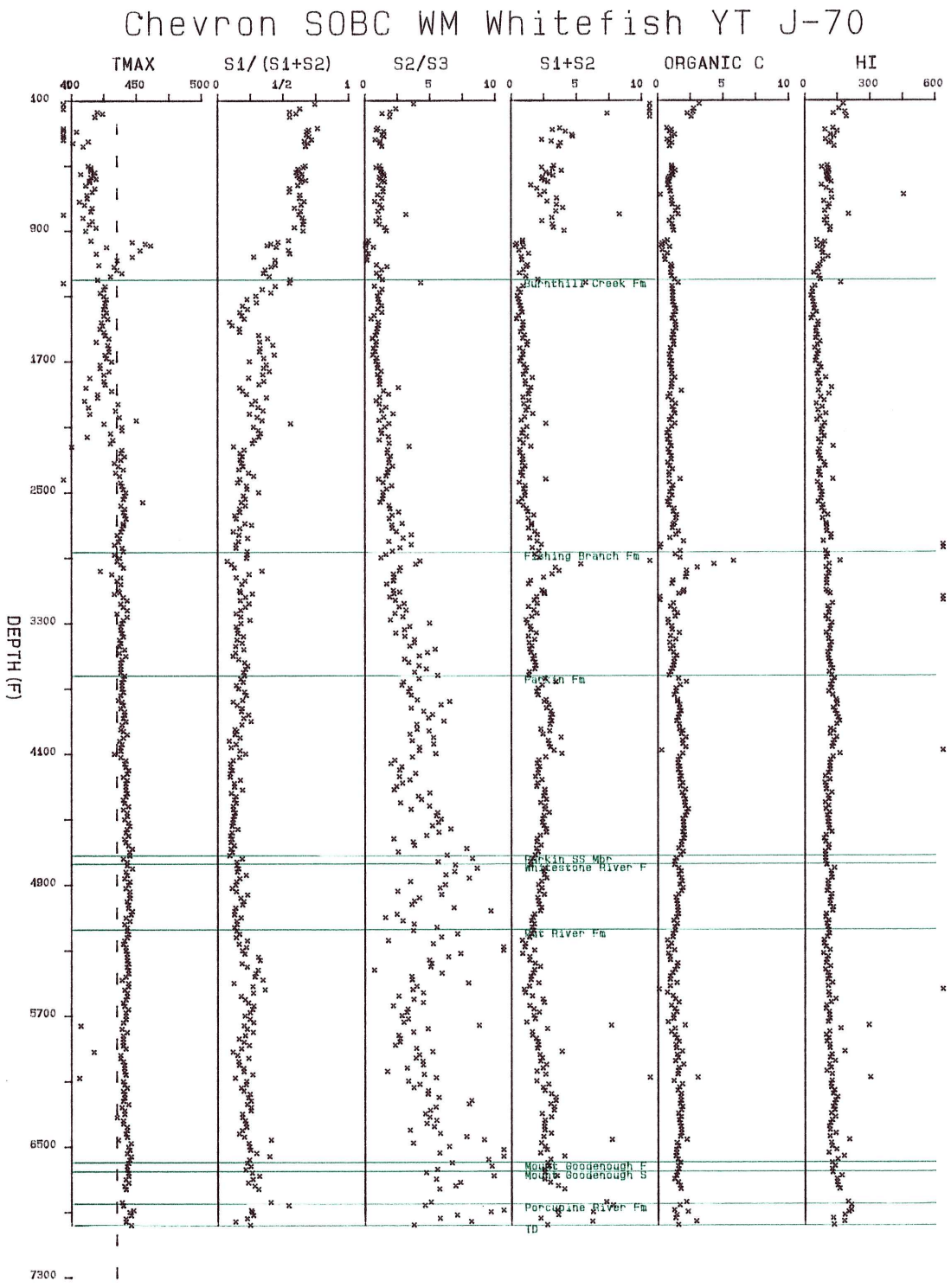



Socony Mobil WM Ellen YT C-24
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
25
50
0
5
10
0
300
600
0
600
1200
1800
2400
3000
3600
4200
4800
5400
DEPTH (F)
Cody Creek Fm
Smithhill Creek Fm
Fishing Branch Fm
Larkin Fm
Parkin SS Mbr
Whitestone River F
Tuttle Fm

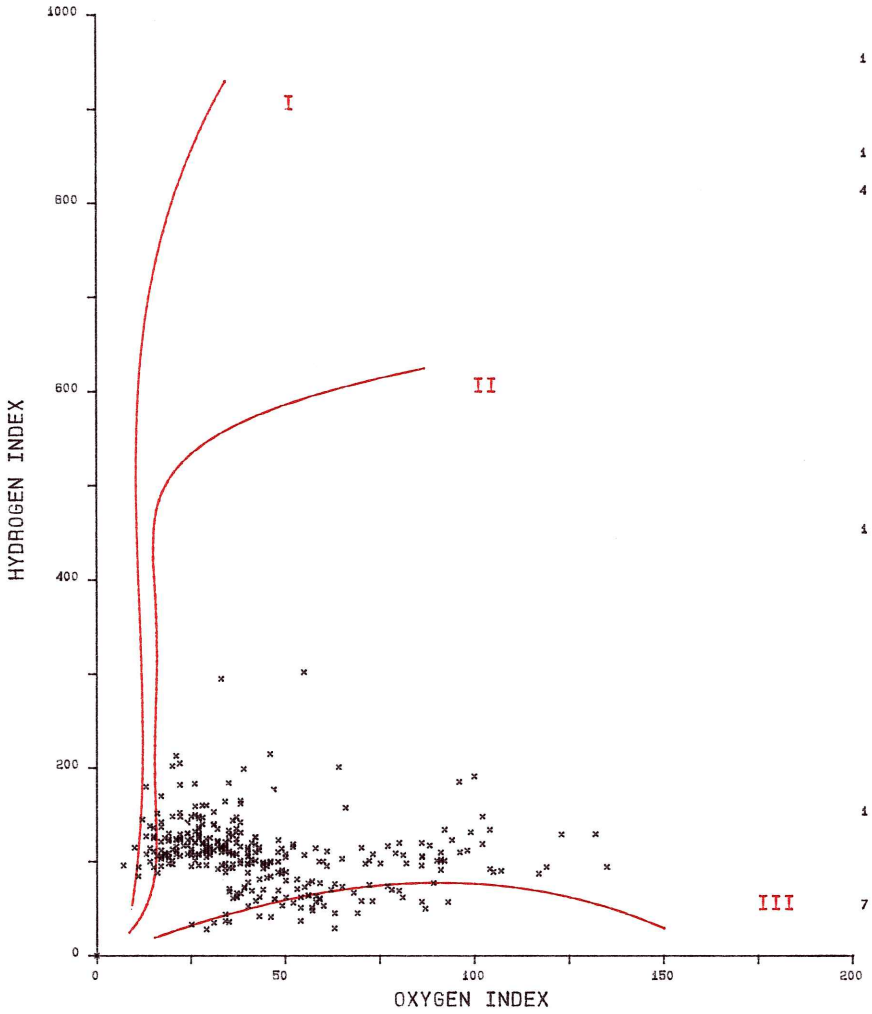
Socony Mobil WM Ellen YT C-24

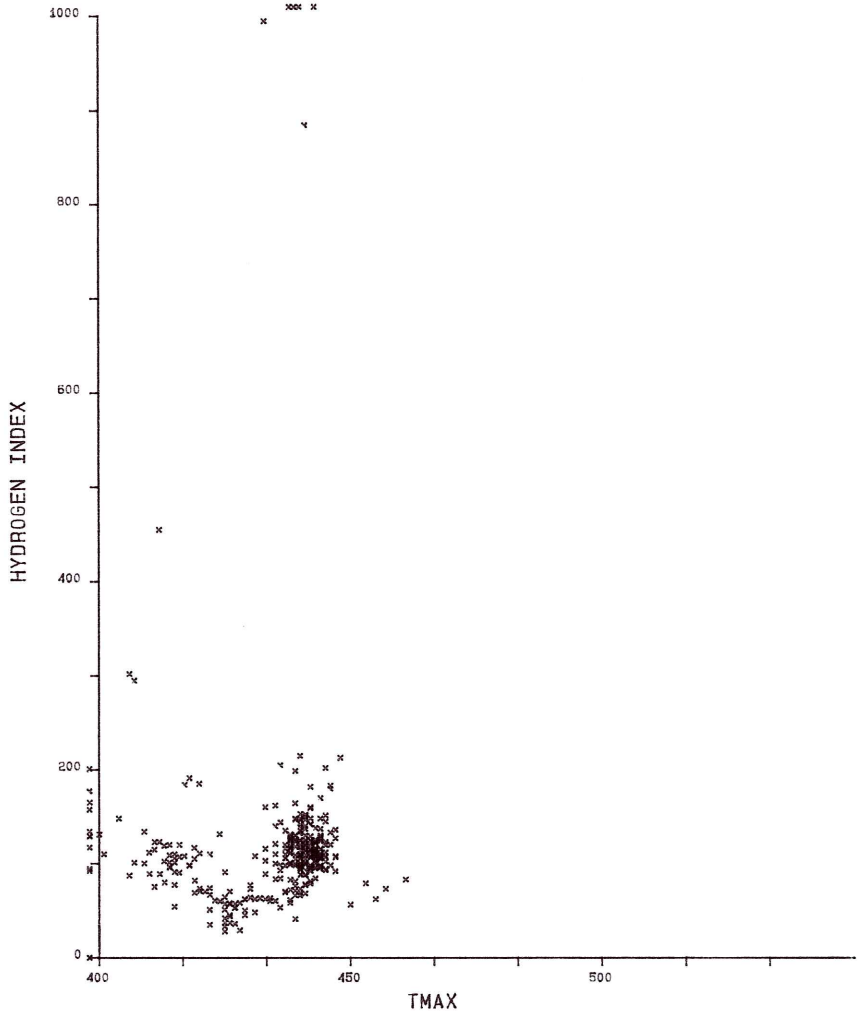


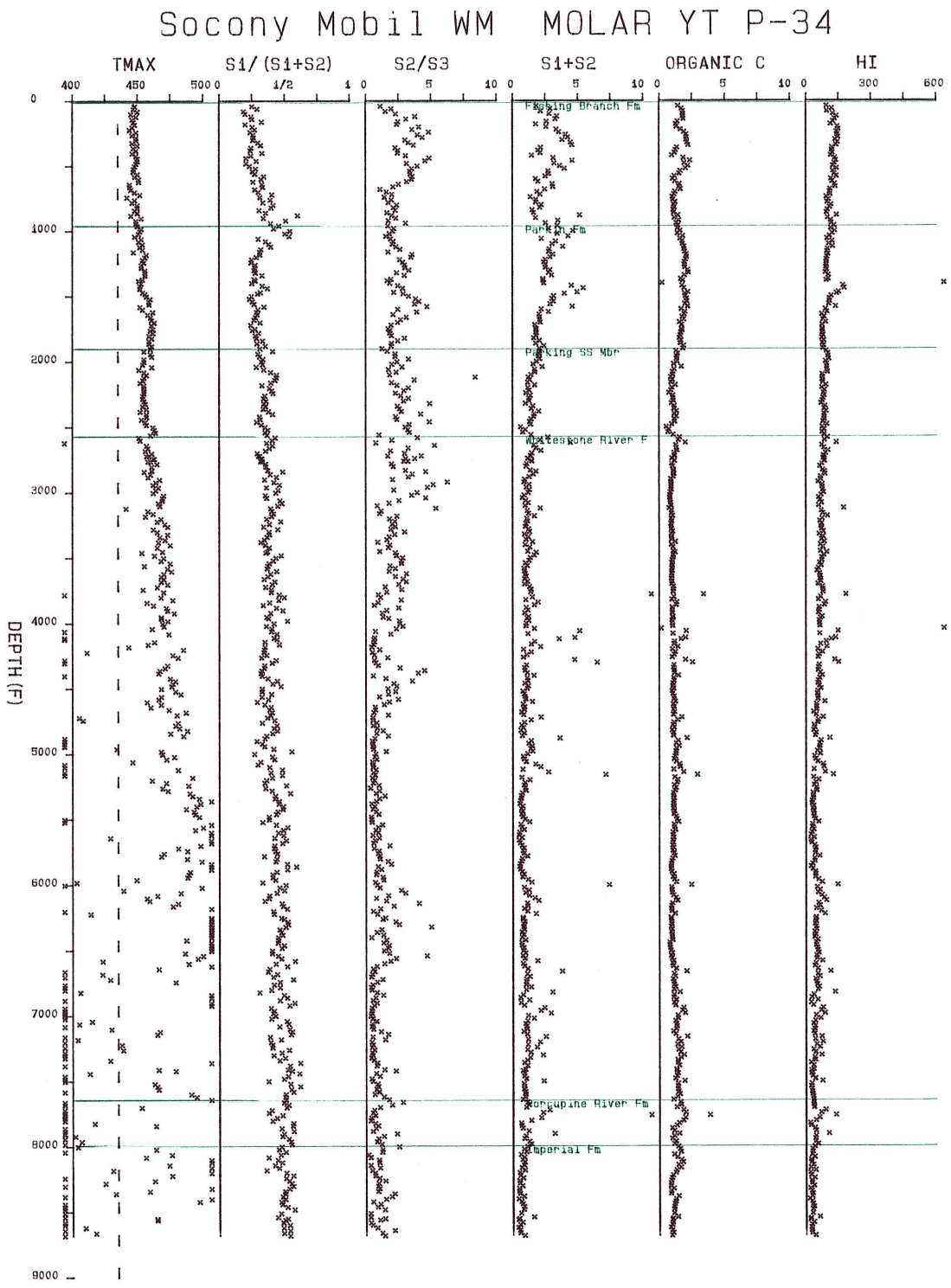



Chevron SOBC WM Whitefish YT J-70
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
DEPTH (F)
100
900
1700
2500
3300
4100
4900
5700
6500
7300
Burnthill Creek Fm
Fishing Branch Fm
Parkin Fm
Parkin SS Mbr
Whitestone River F
Hot River Fm
Mount Goodenough F
Mount Goodenough S
Porcupine River Fm
TD

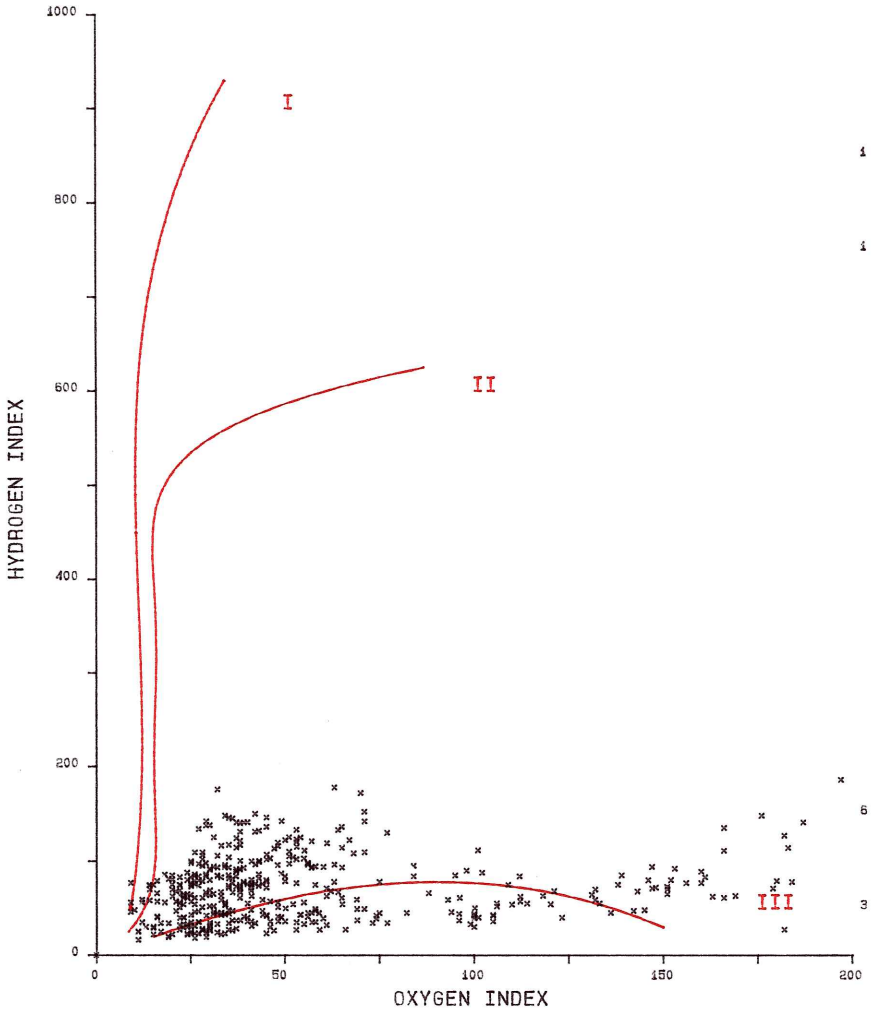
Chevron SOBC WM Whitefish YT J-70

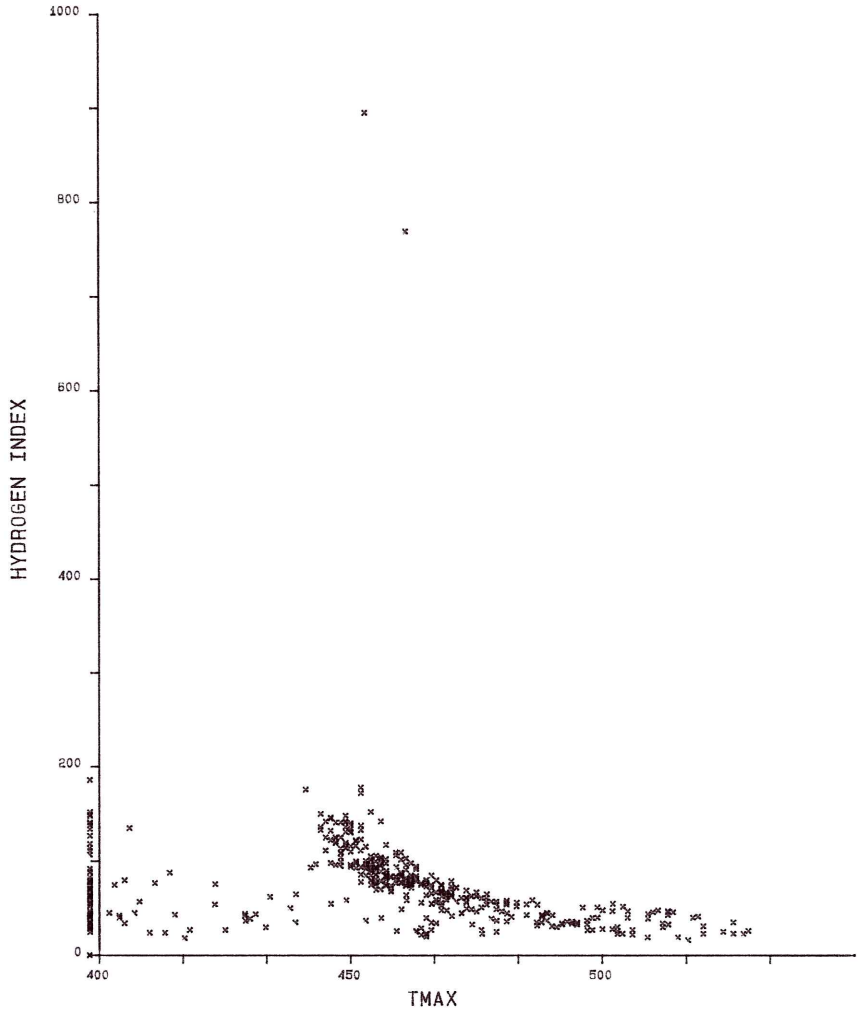


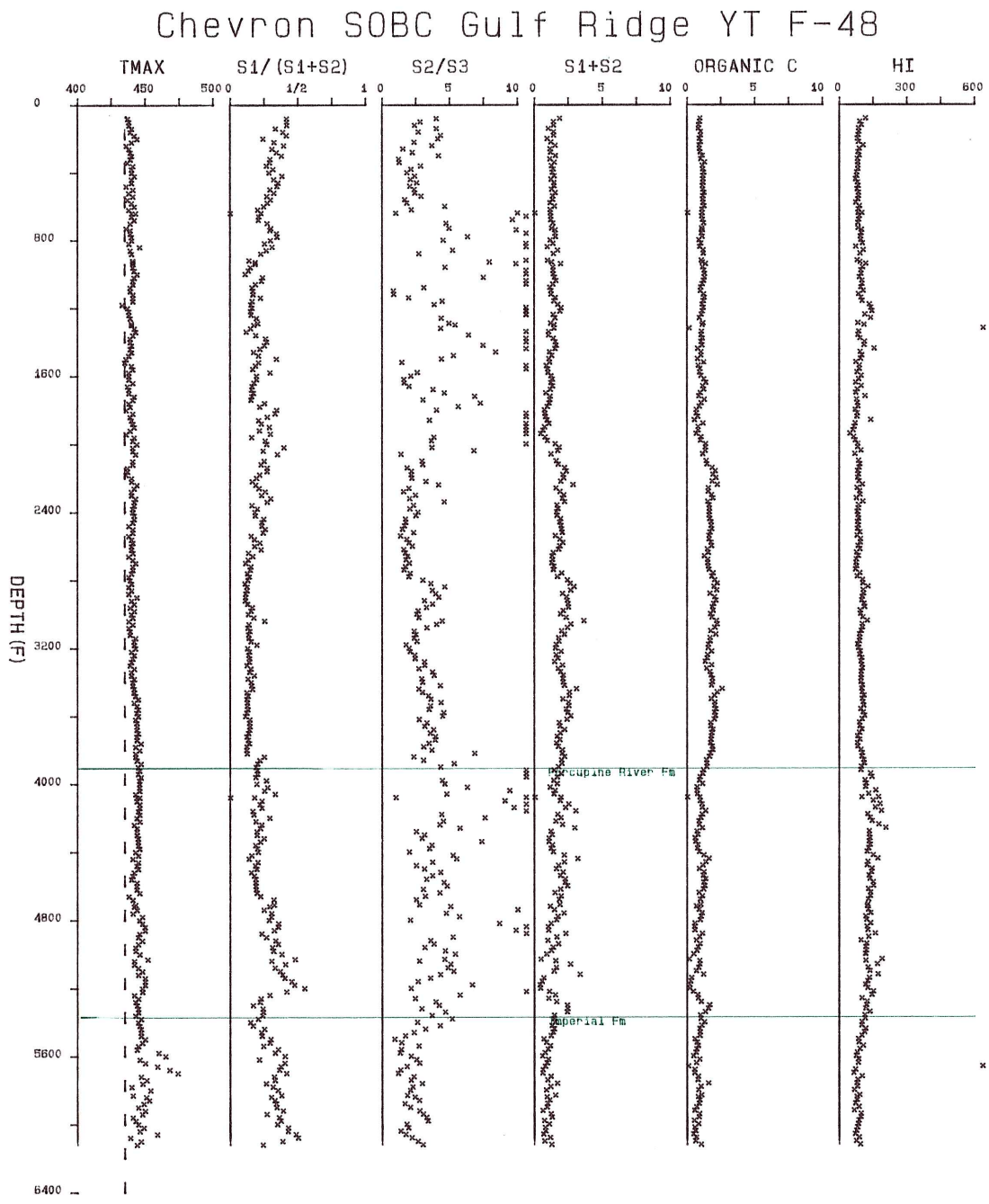



Socony Mobil WM MOLAR YT P-34
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
DEPTH (F)
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
Parking Branch Fm
Parkin Fm
Parking SS Mbr
Whitestone River F
Porcupine River Fm
Imperial Fm

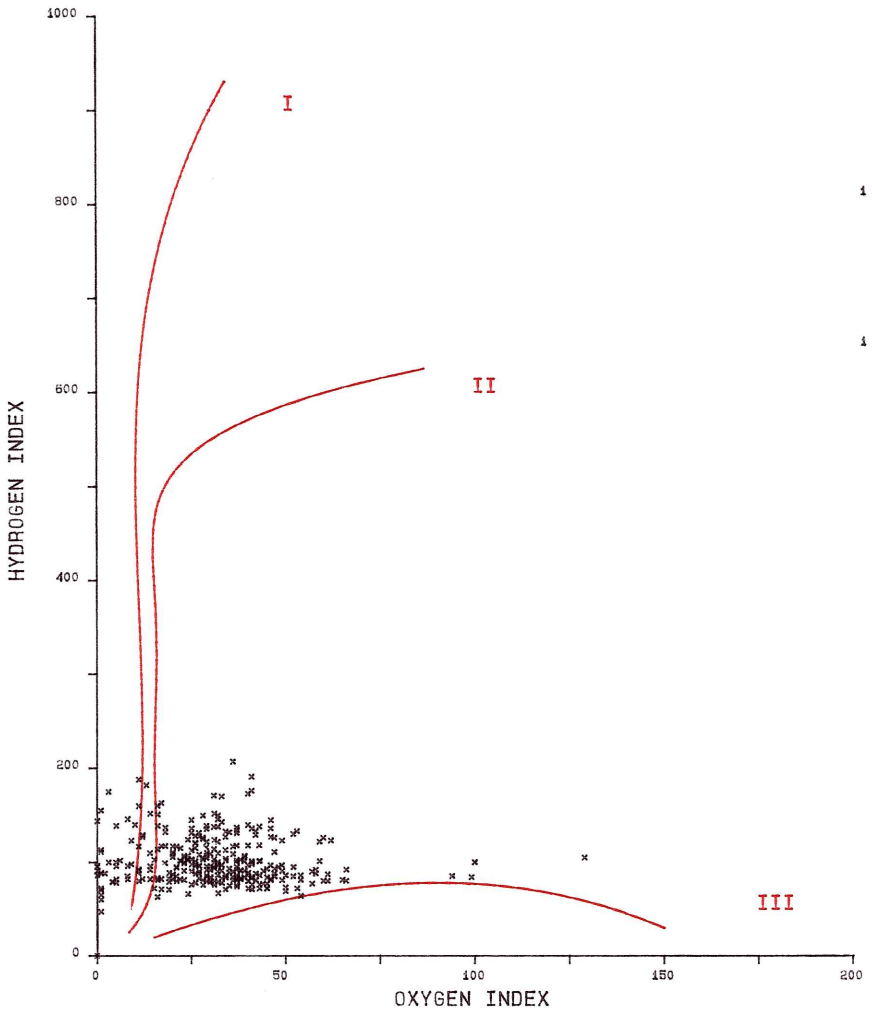
Socony Mobil WM MOLAR YT P-34

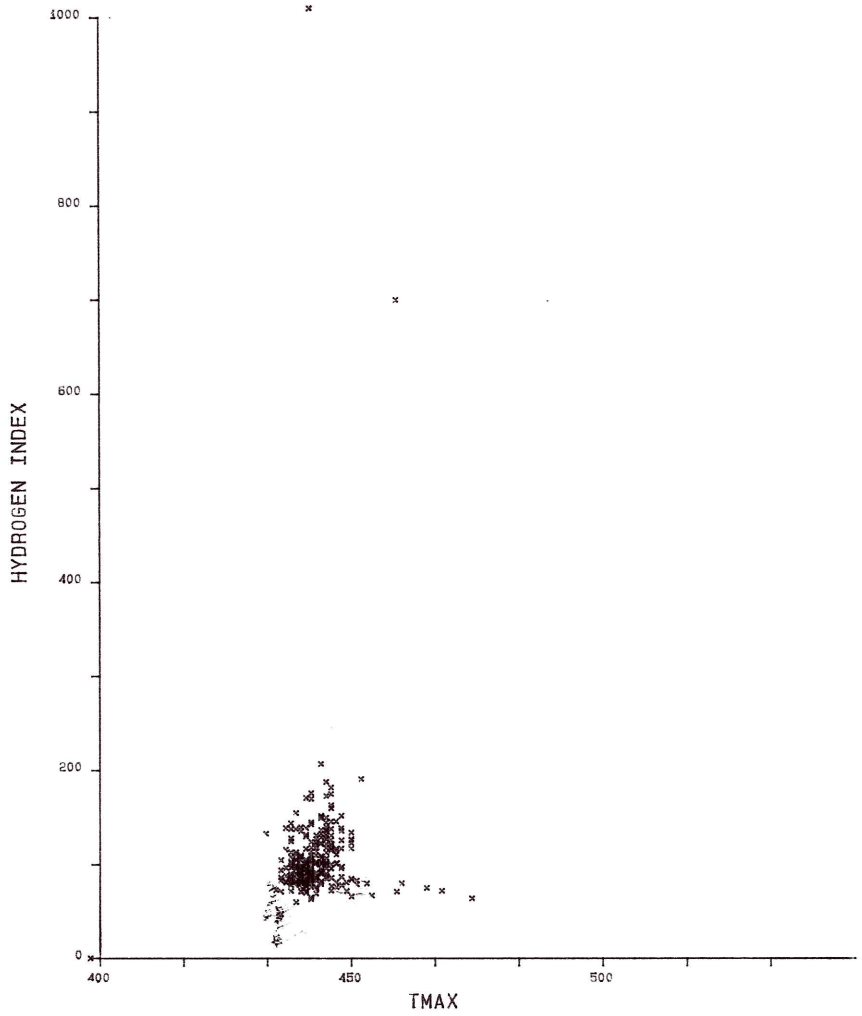





Chevron SOBC Gulf Ridge YT F-48
TMAX
S1/(S1+S2)
S2/S3
S1+S2
ORGANIC C
HI
400
450
500
0
1/2
1
0
5
10
0
5
10
0
5
10
0
300
600
0
800
1600
2400
3200
4000
4800
5600
6400
DEPTH (F)
Porcupine River Fm
Imperial Fm

Chevron SOBC Gulf Ridge YT F-48





SOBC Blackstone YT D-77

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
13210F	.03	.83	.06	444	.05	.01	.16	33	533
13200F	.07	.73	.15	357	.11	.04	.19	57	271
13190F	.03	.76	.17	334	.13	.04	.14	133	466
13180	.03	.75	.12	304	.09	.03	.22	100	733
13170	.04	.87	.08	315	.07	.01	.19	25	475
13160	.05	.67	.21	439	.14	.07	.24	140	480
13159	.07	.55	.29	434	.16	.13	.32	185	457
13140	.04	.81	.16	425	.13	.03	.21	75	525
13130	.07	.66	.41	434	.27	.14	.28	200	400
13120	.02	.89	.09	410	.08	.01	.22	501	100
13110	.04	.53	.17	439	.09	.08	.17	200	425
13100	.05	.70	.23	437	.16	.07	.26	140	520
13090	.06	.74	.19	364	.14	.05	.27	83	450
13080	.03	.73	.11	359	.08	.03	.20	100	666
13070	.05	.60	.20	431	.12	.08	.21	160	420
13060	.02	.77	.13	427	.10	.03	.29	1501	450
13040	.04	.65	.17	430	.11	.06	.26	150	650
13030	.04	.78	.09	308	.07	.02	.23	50	575
13020	.02	.87	.08	000	.07	.01	.23	501	150
13010	.01	.50	.02	000	.01	.01	.13	1001	300
13000	.05	.91	.11	000	.10	.01	.25	20	500
12990	.22	.92	1.34	436	1.23	.11	.39	50	177
12980	.05	.94	.17	000	.16	.01	.26	20	520
12970	.07	.80	.20	369	.16	.04	.32	57	457
12960	.04	.89	.09	000	.08	.01	.19	25	475
12950	.04	.75	.16	346	.12	.04	.25	100	625
12940	.03	.87	.08	000	.07	.01	.24	33	800
12930	.04	.92	.12	000	.11	.01	.26	25	650
12920	.02	.83	.06	000	.05	.01	.23	501	150
12910	.02	.80	.05	000	.04	.01	.23	501	150
12900	.03	.80	.05	000	.04	.01	.22	33	733
12890	.02	.87	.08	000	.07	.01	.19	50	950
12880	.04	.78	.09	000	.07	.02	.21	50	525
12870	.05	.80	.10	307	.08	.02	.21	40	420
12860	.02	.50	.02	000	.01	.01	.18	50	900
12850	.02	.71	.07	308	.05	.02	.26	1001	300
12840	.03	.50	.02	000	.01	.01	.17	33	566
12830	.02	.50	.02	000	.01	.01	.17	50	850
12820	.02	.80	.05	000	.04	.01	.19	50	950
12810	.04	.71	.07	442	.05	.02	.18	50	450
12800	.05	.67	.09	362	.06	.03	.21	60	420
12790	.03	.67	.03	307	.02	.01	.18	33	600
12780	.03	.78	.09	341	.07	.02	.28	66	933
12770	.04	.75	.08	313	.06	.02	.21	50	525
12760	.04	.67	.27	418	.18	.09	.42	2251	050
12750	.05	.94	.16	000	.15	.01	.30	20	600
12740	.06	.92	.12	000	.11	.01	.30	16	500
12730	.06	.83	.06	000	.05	.01	.21	16	350
12720	.06	.87	.08	329	.07	.01	.23	16	383

12710	.06	.73	.11	307	.08	.03	.23	50	383
12700	.05	.89	.09	310	.08	.01	.22	20	440
12690	.02	.75	.04	0.01	.03	.01	.20	501	000
12690	.02	.67	.03	000	.02	.01	.23	501	150
12680	.06	.70	.20	355	.14	.06	.30	100	500
12670	.04	.80	.05	307	.04	.01	.26	25	650
12660	.05	.73	.11	307	.08	.03	.27	60	540
12640	.04	.86	.07	000	.06	.01	.23	25	575
12630	.03	.86	.07	323	.06	.01	.25	33	833
12620	.04	.70	.10	335	.07	.03	.27	75	675
12610	.03	.75	.04	307	.03	.01	.20	33	666
12600	.04	.83	.06	000	.05	.01	.27	25	675
12590	.04	.67	.06	331	.04	.02	.27	50	675
12580	.04	.60	.10	308	.06	.04	.26	100	650
12570	.04	.67	.09	307	.06	.03	.28	75	699
12560	.04	.83	.06	000	.05	.01	.24	25	600
12550	.03	.67	.03	000	.02	.01	.25	33	833
12540	.05	.80	.05	439	.04	.01	.23	20	460
12530	.03	.87	.08	355	.07	.01	.27	33	900
12520	.02	.83	.06	000	.05	.01	.19	50	950
12510	.03	.80	.10	332	.08	.02	.29	66	966
12500	.05	.61	.18	365	.11	.07	.31	140	620
12490	.04	.67	.15	307	.10	.05	.32	125	800
12480	.05	.67	.21	347	.14	.07	.34	140	680
12470	.03	.80	.05	308	.04	.01	.30	331	000
12460	.14	.50	.02	000	.01	.01	.01	7	7
12450	.03	.78	.09	440	.07	.02	.21	66	700
12440	.09	.87	.32	354	.28	.04	.30	44	333
12430	.04	.89	.09	308	.08	.01	.20	25	500
12420	.06	.06	.18	000	.01	.17	.22	283	366
12410	.07	.28	.29	000	.08	.21	1.00	300	1428
12400	.03	.86	.07	000	.06	.01	.16	33	533
12390	.04	.92	.13	000	.12	.01	.19	25	475
12380	.03	.80	.05	000	.04	.01	.16	33	533
12370	.03	.86	.07	000	.06	.01	.19	33	633
12360	.05	.80	.05	000	.04	.01	.18	20	360
12350	.04	.75	.04	000	.03	.01	.18	25	450
12340	.05	.67	.06	000	.04	.02	.18	40	360
12330	.04	.67	.12	419	.08	.04	.19	100	475
12320	.07	.87	.15	000	.13	.02	.22	28	314
12310	.04	.67	.12	308	.08	.04	.17	100	425
12300	.04	.62	.13	305	.08	.05	.18	125	450
12290	.03	.67	.03	000	.02	.01	.19	33	633
12280	.03	.86	.07	000	.06	.01	.21	33	700
12270	.04	.80	.05	000	.04	.01	.18	25	450
12260	.05	.75	.16	309	.12	.04	.25	80	500
12250	.03	.71	.07	308	.05	.02	.20	66	666
12240	.03	.75	.08	308	.06	.02	.23	66	766
12230	.05	.71	.17	441	.12	.05	.25	100	500
12220	.04	.89	.09	329	.08	.01	.20	25	500
12210	.04	.91	.11	308	.10	.01	.18	25	450
12200	.03	.89	.09	000	.08	.01	.17	33	566

12190	.03	.83	.06	307	.05	.01	.20	33	666
12180	.04	.08	.13	000	.01	.12	.11	300	275
12170	.03	.67	.03	000	.02	.01	.22	33	733
12160	.03	.83	.06	000	.05	.01	.20	33	666
12150	.04	.71	.07	000	.05	.02	.18	50	450
12140	.04	.70	.10	333	.07	.03	.16	75	400
12130	.03	.83	.06	303	.05	.01	.18	33	600
12120	.04	.73	.11	422	.08	.03	.20	75	500
12110	.03	.86	.07	370	.06	.01	.18	33	600
12100	.05	.07	.14	328	.01	.13	.01	260	20
12090	.03	.75	.08	308	.06	.02	.17	66	566
12080	.05	.05	.21	339	.01	.20	.17	400	340
12070	.05	.87	.08	345	.07	.01	.22	20	440
12060	.04	.75	.08	307	.06	.02	.22	50	550
12050	.03	.57	.07	357	.04	.03	.14	100	466
12040	.04	.67	.09	336	.06	.03	.21	75	525
12030	.05	.71	.14	348	.10	.04	.20	80	400
12020	.05	.89	.09	305	.08	.01	.19	20	380
12010	.07	.78	.09	333	.07	.02	.20	28	285
12000	.04	.90	.10	000	.09	.01	.21	25	525
11990	.04	.80	.05	307	.04	.01	.16	25	400
11980	.07	.81	.16	358	.13	.03	.23	42	328
11970	.04	.86	.07	306	.06	.01	.17	25	425
11960	.05	.92	.12	333	.11	.01	.23	20	460
11950	.06	.83	.06	341	.05	.01	.20	16	333
11940	.08	.75	.12	348	.09	.03	.18	37	225
11930	.09	.86	.07	000	.06	.01	.24	11	266
11920	.06	.87	.08	330	.07	.01	.18	16	300
11910	.05	.92	.13	000	.12	.01	.19	20	380
11900	.04	.90	.10	000	.09	.01	.16	25	400
11890	.05	.67	.15	399	.10	.05	.19	100	380
11880	.07	.78	.18	354	.14	.04	.24	57	342
11870	.03	.75	.04	307	.03	.01	.14	33	466
11860	.04	.83	.06	308	.05	.01	.16	25	400
11850	.03	.86	.07	000	.06	.01	.13	33	433
11840	.05	.67	.15	399	.10	.05	.19	100	380
11830	.04	.87	.08	317	.07	.01	.19	25	475
11820	.04	.86	.07	000	.06	.01	.19	25	475
11810	.06	.69	.13	335	.09	.04	.21	66	350
10800	.32	.09	.11	490	.01	.10	.01	31	3
11790	.03	.67	.03	000	.02	.01	.17	33	566
11780	.04	.90	.10	345	.09	.01	.18	25	450
11770	.04	.67	.12	334	.08	.04	.21	100	525
11760	.04	.81	.16	432	.13	.03	.18	75	450
11750	.03	.86	.07	000	.06	.01	.19	33	633
11740	.03	.86	.07	000	.06	.01	.20	33	666
11730	.03	.75	.04	000	.03	.01	.16	33	533
11720	.05	.86	.14	307	.12	.02	.24	40	480
11710	.03	.80	.05	347	.04	.01	.16	33	533
11700	.05	.78	.09	361	.07	.02	.21	40	420
11690	.04	.75	.08	333	.06	.02	.20	50	500
11680	.07	.85	.13	344	.11	.02	.26	28	371

11670	.06	.73	.11	334	.08	.03	.23	50	383
11660	.05	.85	.13	308	.11	.02	.23	40	460
11650	.04	.83	.06	000	.05	.01	.19	25	475
11640	.24	.50	.02	000	.01	.01	.01	4	4
11630	.23	.50	.02	000	.01	.01	.01	4	4
11620	.26	.50	.02	000	.01	.01	.01	3	3
11610	.12	.93	.83	334	.77	.06	.59	50	491
11600	.06	.91	.34	307	.31	.03	.47	50	783
11590	.03	.60	.05	335	.03	.02	.22	66	733
11580	.04	.80	.05	307	.04	.01	.19	25	475
11570	.03	.80	.05	308	.04	.01	.18	33	600
11560	.04	.71	.07	308	.05	.02	.19	50	475
11550	.04	.75	.12	318	.09	.03	.20	75	500
11540	.07	.80	.20	340	.16	.04	.39	57	557
11530	.05	.75	.08	337	.06	.02	.20	40	400
11520	.05	.73	.15	346	.11	.04	.23	80	460
11510	.05	.80	.10	424	.08	.02	.20	40	400
11500	.06	.75	.16	413	.12	.04	.31	66	516
11490	.07	.70	.20	343	.14	.06	.36	85	514
11480	.04	.70	.10	345	.07	.03	.21	75	525
11470	.04	.86	.07	308	.06	.01	.18	25	450
11460	.07	.87	.15	317	.13	.02	.32	28	457
11450	.04	.86	.07	308	.06	.01	.24	25	600
11440	.05	.79	.14	346	.11	.03	.26	60	520
11430	.15	.72	.64	453	.46	.18	.68	120	453
11420	.03	.75	.04	000	.03	.01	.19	33	633
11410	.06	.80	.10	349	.08	.02	.27	33	450
11400	.04	.80	.05	000	.04	.01	.23	25	575
11390	.06	.80	.05	000	.04	.01	.23	16	383
11380	.06	.87	.08	317	.07	.01	.22	16	366
11380	.06	.86	.07	307	.06	.01	.27	16	450
11360	.06	.67	.06	308	.04	.02	.19	33	316
11350	.06	.70	.10	368	.07	.03	.25	50	416
11340	.07	.83	.12	000	.10	.02	.27	28	385
11330	.04	.75	.04	000	.03	.01	.26	25	650
11320	.06	.80	.05	361	.04	.01	.25	16	416
11310	.04	.80	.05	000	.04	.01	.21	25	525
11300	.09	.69	.13	438	.09	.04	.25	44	277
11290	.05	.62	.13	352	.08	.05	.28	100	560
11280	.01	.50	.02	000	.01	.01	.01	100	100
11270	.04	.75	.04	000	.03	.01	.18	25	450
11260	.06	.71	.07	443	.05	.02	.16	33	266
11250	.13	.18	1.36	364	.24	1.12	.29	861	223
11240	.07	.71	.07	424	.05	.02	.41	28	585
11220	.08	.86	.07	308	.06	.01	.27	12	337
11210	.10	.80	.15	348	.12	.03	.36	30	360
11200	.12	.82	.17	318	.14	.03	.36	25	300
11190	.07	.86	.07	308	.06	.01	.27	14	385
11180	.18	.85	.13	329	.11	.02	.36	11	200
11170	.08	.86	.07	000	.06	.01	.21	12	262
11160	.06	.78	.09	000	.07	.02	.24	33	400
11150	.05	.89	.09	307	.08	.01	.29	20	580

11140	.07	.86	.07	000	.06	.01	.22	14	314
11130	.35	.50	.02	000	.01	.01	.01	2	2
11120	.23	.50	.02	000	.01	.01	.01	4	4
11110	.23	.50	.02	000	.01	.01	.01	4	4
11100	.05	.71	.07	308	.05	.02	.23	40	460
11090	.07	.83	.12	302	.10	.02	.30	28	428
11080	.07	.92	.12	307	.11	.01	.30	14	428
11070	.08	.73	.15	325	.11	.04	.33	50	412
11060	.08	.67	.12	308	.08	.04	.30	50	375
11050	.04	.80	.05	331	.04	.01	.22	25	550
11040	.18	.67	.43	434	.29	.14	.70	77	388
11030	.06	.64	.14	422	.09	.05	.28	83	466
11020	.08	.79	.14	348	.11	.03	.35	37	437
11010	.14	.67	.21	339	.14	.07	.56	50	400
11000	.12	.80	.15	440	.12	.03	.40	25	333
10990	.09	.75	.12	361	.09	.03	.34	33	377
10980	.10	.77	.13	323	.10	.03	.37	30	370
10970	.09	.77	.13	000	.10	.03	.29	33	322
10960	.08	.75	.12	334	.09	.03	.30	37	375
10950	.10	.73	.15	324	.11	.04	.38	40	380
10940	.06	.83	.06	000	.05	.01	.19	16	316
10930	.05	.69	.13	336	.09	.04	.20	80	400
10920	.07	.77	.13	000	.10	.03	.23	42	328
10910	.16	.44	.25	435	.11	.14	.67	87	418
10900	.06	.64	.11	432	.07	.04	.32	66	533
10890	.10	.50	.12	371	.06	.06	.52	60	520
10880	.06	.65	.17	307	.11	.06	.44	100	733
10870	.24	.50	.02	000	.01	.01	.01	4	4
10860	.28	.50	.02	000	.01	.01	.01	3	3
10850	.24	.50	.02	000	.01	.01	.01	4	4
10840	.30	.50	.02	000	.01	.01	.01	3	3
10690	.04	.60	.05	308	.03	.02	.20	50	500
10680	.04	1.00	.02	0	.02	0.00	.19	0	475
10670	.06	.82	.11	399	.09	.02	.33	33	550
10660	.08	1.00	.06	0	.06	0.00	.30	0	375
10650	.01	1.00	.07	0	.07	0.00	.27	02	700
10640	.37	0.00	.01	0	0.00	.01	.01	2	2
10630	.09	.64	.11	347	.07	.04	.28	44	311
10620	.05	.75	.04	333	.03	.01	.19	20	380
10610	.08	.86	.07	439	.06	.01	.23	12	287
10600	.08	1.00	.05	0	.05	0.00	.20	0	250
10590	.10	.78	.09	0	.07	.02	.19	20	190
10580	.15	1.00	.07	0	.07	0.00	.20	0	133
10570	.11	.64	.11	308	.07	.04	.19	36	172
10560	.20	.78	.23	358	.18	.05	.38	25	190
10550	.19	.92	.13	304	.12	.01	.40	5	210
10540	.24	.69	.16	300	.11	.05	.18	20	75
10530	.25	.85	.13	308	.11	.02	.18	8	72
10520	.22	.91	.11	0	.10	.01	.14	4	63
10510	.19	.64	.25	411	.16	.09	.30	47	157
10500	.06	.67	.06	328	.04	.02	.17	33	283
10490	.10	.80	.10	336	.08	.02	.28	20	280

10480	.06	.87	.08	305	.07	.01	.20	16	333
10470	.06	.60	.10	427	.06	.04	.26	66	433
10460	.10	.67	.12	358	.08	.04	.39	40	390
10450	.09	.67	.09	0	.06	.03	.35	33	388
10440	.14	.58	.12	332	.07	.05	.49	35	350
10430	.01	.71	.17	374	.12	.05	.54	5005	400
10420	.17	.60	.15	432	.09	.06	.52	35	305
10410	.34	.26	.43	394	.11	.32	1.39	94	408
10400	.12	.69	.16	354	.11	.05	.42	41	350
10390	.02	1.00	.01	0	.01	0.00	.17	0	850
10380	.08	.64	.14	340	.09	.05	.42	62	525
10370	.11	.69	.13	308	.09	.04	.32	36	290
10360	.10	.86	.07	316	.06	.01	.33	10	330
10350	.21	.75	.24	308	.18	.06	.42	28	200
10340	.07	.83	.06	439	.05	.01	.34	14	485
10330	.10	.71	.14	383	.10	.04	.51	40	510
10320	.10	.58	.12	340	.07	.05	.39	50	390
10310	.14	.64	.14	339	.09	.05	.37	35	264
10300	.11	.63	.08	307	.05	.03	.31	27	281
10290	.07	.83	.12	337	.10	.02	.33	28	471
10280	.06	.67	.06	304	.04	.02	.30	33	500
10270	.04	1.00	.03	0	.03	0.00	.20	0	500
10260	.05	1.00	.04	0	.04	0.00	.29	0	580
10250	.06	.80	.05	307	.04	.01	.28	16	466
10240	.10	.56	.09	308	.05	.04	.33	40	330
10230	.11	.75	.08	336	.06	.02	.43	18	390
10220	.09	.70	.10	306	.07	.03	.37	33	411
10210	.06	.67	.06	328	.04	.02	.28	33	466
10200	.05	.58	.12	437	.07	.05	.31	100	620
10190	.16	.50	.20	426	.10	.10	.69	62	431
10180	.14	.56	.18	344	.10	.08	.46	57	328
10170	.07	.83	.06	0	.05	.01	.40	14	571
10160	.40	0.00	.01	0	0.00	.01	.01	2	2
10150	.28	0.00	.01	0	0.00	.01	.01	3	3
10140	.46	0.00	.01	0	0.00	.01	.01	2	2
10130	.22	.52	.23	398	.12	.11	.77	50	350
10120	.14	.33	.12	352	.04	.08	.66	57	471
10110	.11	.67	.12	308	.08	.04	.44	36	400
10100	.17	.80	.15	323	.12	.03	.60	17	352
10090	.40	.23	.97	352	.22	.75	1.90	187	475
10080	.03	1.00	.02	0	.02	0.00	.20	0	666
10070	.06	.56	.09	442	.05	.04	.21	66	350
10060	.12	.60	.10	360	.06	.04	.39	33	325
10050	.08	.73	.11	308	.08	.03	.31	37	387
10040	.04	.80	.05	333	.04	.01	.26	25	650
10030	.08	.40	.10	307	.04	.06	.39	75	487
10020	.10	.67	.12	331	.08	.04	.35	40	350
10010	.04	.80	.05	307	.04	.01	.26	25	650
10000	.06	.75	.08	308	.06	.02	.30	33	500
9990	.04	.75	.08	308	.06	.02	.24	50	600
9980	.05	.87	.08	303	.07	.01	.27	20	540
9970	.03	1.00	.04	0	.04	0.00	.23	0	766

9960	.08	.74	.19	355	.14	.05	.39	62	487
9950	.08	.71	.17	354	.12	.05	.35	62	437
9940	.06	1.00	.06	0	.06	0.00	.29	0	483
9930	.04	.75	.08	307	.06	.02	.26	50	650
9920	.18	.33	.39	439	.13	.26	1.14	144	633
9910	.04	.67	.12	434	.08	.04	.33	100	825
9900	.06	.69	.13	340	.09	.04	.34	66	566
9890	.04	1.00	.03	0	.03	0.00	.23	0	575
9880	.06	.79	.14	333	.11	.03	.30	50	500
9870	.04	.83	.12	308	.10	.02	.29	50	725
9860	.06	.85	.13	328	.11	.02	.36	33	600
9850	.06	.87	.08	314	.07	.01	.34	16	566
9840	.04	.70	.10	358	.07	.03	.32	75	800
9830	.05	.86	.07	345	.06	.01	.37	20	740
9820	.06	.67	.15	415	.10	.05	.37	83	616
9810	.07	.75	.16	342	.12	.04	.34	57	485
9800	.08	.73	.22	397	.16	.06	.38	75	475
9790	.11	.67	.12	332	.08	.04	.35	36	318
9780	.05	1.00	.05	0	.05	0.00	.20	0	400
9770	.01	.71	.07	331	.05	.02	.19	2001	900
9760	.01	.56	.16	379	.09	.07	.26	6992	600
9750	.05	.86	.07	0	.06	.01	.20	20	400
9740	.09	.67	.15	370	.10	.05	.32	55	355
9730	.08	.63	.19	411	.12	.07	.36	87	450
9720	.06	.80	.10	338	.08	.02	.27	33	450
9710	.11	.86	.35	354	.30	.05	.44	45	400
9700	.09	.79	.19	357	.15	.04	.36	44	400
9690	.01	.64	.11	304	.07	.04	.24	4002	400
9680	.05	1.00	.06	0	.06	0.00	.15	0	300
9670	.05	1.00	.05	0	.05	0.00	.32	0	640
9660	.10	.75	.08	308	.06	.02	.32	20	320
9650	.06	.70	.10	308	.07	.03	.20	50	333
9640	.08	.64	.11	349	.07	.04	.30	50	375
9630	.05	.86	.07	325	.06	.01	.21	20	420
9620	.06	.67	.12	307	.08	.04	.24	66	400
9610	.08	.73	.11	343	.08	.03	.34	37	425
9600	.04	.83	.06	307	.05	.01	.21	25	525
9590	.10	.73	.11	330	.08	.03	.34	30	340
9580	.08	.80	.05	308	.04	.01	.20	12	250
9570	.11	.77	.13	313	.10	.03	.42	27	381
9560	.09	.67	.09	307	.06	.03	.29	33	322
9550	.12	.64	.11	367	.07	.04	.27	33	225
9540	.12	.69	.13	308	.09	.04	.21	33	175
9530	.12	.75	.12	306	.09	.03	.22	25	183
9520	.19	.75	.12	308	.09	.03	.35	15	184
9510	.28	.71	.17	310	.12	.05	.28	17	100
9500	.10	1.00	.03	0	.03	0.00	.22	0	220
9490	.09	.57	.14	336	.08	.06	.24	66	266
9480	.13	.53	.17	352	.09	.08	.32	61	246
9470	.14	.78	.09	304	.07	.02	.32	14	228
9460	.22	.72	.18	335	.13	.05	.40	22	181
9450	.19	.71	.28	356	.20	.08	.44	42	231

9440	.18	.61	.23	360	.14	.09	.36	50	200
9430	.45	.57	.82	428	.47	.35	.88	77	195
9420	.14	.71	.34	414	.24	.10	.49	71	350
9410	.28	.80	.15	308	.12	.03	.46	10	164
9400	.16	.63	.24	363	.15	.09	.49	56	306
9390	.27	.79	.14	307	.11	.03	.30	11	111
9380	.25	.76	.25	386	.19	.06	.38	24	152
9370	.18	.64	.11	308	.07	.04	.22	22	122
9360	.36	.64	.22	331	.14	.08	.47	22	130
9350	.32	.75	.20	332	.15	.05	.53	15	165
9340	.50	.77	.22	308	.17	.05	.44	10	88
9330	.53	.61	.33	418	.20	.13	.59	24	111
9320	.60	.72	.29	400	.21	.08	.58	13	96
9310	.71	.81	.27	308	.22	.05	.39	7	54
9300	.63	.78	.23	341	.18	.05	.29	7	46
9290	.29	.61	.18	338	.11	.07	.40	24	137
9280	1.43	.82	.73	345	.60	.13	.36	9	25
9280	1.69	.31	2.64	435	.83	1.81	.67	107	39
9270	2.68	.76	.85	331	.65	.20	.45	7	16
9260	2.59	.76	.74	392	.56	.18	.68	6	26
9250	1.92	.81	.63	350	.51	.12	.46	6	23
9240	.17	.63	.19	438	.12	.07	.30	41	176
9240	2.52	.47	.91	387	.43	.48	1.35	19	53
9230	2.31	.85	.47	344	.40	.07	.35	3	15
9230	.09	.62	.13	344	.08	.05	.22	55	244
9220	1.84	.78	.46	308	.36	.10	.26	5	14
9210	1.24	.89	.46	308	.41	.05	.30	4	24
9200	.96	.76	.46	349	.35	.11	.37	11	38
9190	1.63	.71	.62	308	.44	.18	.47	11	28
9180	2.48	.72	.81	383	.58	.23	.47	9	18
9170	2.43	.78	.94	351	.73	.21	.50	8	20
9160	1.58	.65	.78	377	.51	.27	.50	17	31
9150	1.57	.77	.78	343	.60	.18	.56	11	35
9140	1.10	.84	.50	337	.42	.08	.50	7	45
9130	1.13	.77	.57	328	.44	.13	.40	11	35
9120	.56	.84	.25	304	.21	.04	.35	7	62
9110	.39	.72	.25	342	.18	.07	.40	17	102
9100	.44	.78	.27	308	.21	.06	.37	13	84
9090	.37	.62	.21	407	.13	.08	.39	21	105
9080	.67	.44	.45	425	.20	.25	.97	37	144
9070	.51	.75	.28	344	.21	.07	.38	13	74
9060	.67	.90	.30	308	.27	.03	.33	4	49
9050	.01	0.00	.01	0	0.00	.01	.01	100	100
9050	.73	.76	.41	0	.31	.10	.49	13	67
9040	.74	.76	.34	306	.26	.08	.35	10	47
9040	.01	0.00	.01	0	0.00	.01	.01	100	100
9030	.59	.81	.31	308	.25	.06	.28	10	47
9020	.84	.74	.42	308	.31	.11	.29	13	34
9010	1.00	.73	.44	308	.32	.12	.44	12	44
9000	.54	.68	.28	410	.19	.09	.52	16	96
8990	.65	.78	.41	308	.32	.09	.42	13	64
8980	.55	.82	.22	338	.18	.04	.33	7	60

8970	2.22	.12	2.90	434	.35	2.55	.65	114	29
8970	.49	.72	.29	308	.21	.08	.27	16	55
8960	.56	.82	.28	383	.23	.05	.30	8	53
8950	.81	.83	.40	308	.33	.07	.28	8	34
8940	1.16	.62	.69	405	.43	.26	.55	22	47
8930	1.44	.78	.73	308	.57	.16	.32	11	22
8920	.51	.80	.25	308	.20	.05	.28	9	54
8910	.39	.80	.20	334	.16	.04	.32	10	82
8900	.62	.76	.33	308	.25	.08	.29	12	46
8890	.70	.79	.53	0	.42	.11	.30	15	42
8880	.94	.84	.57	0	.48	.09	.44	9	46
8870	.35	.67	.46	414	.31	.15	.47	42	134
8860	.43	.73	.33	308	.24	.09	.49	20	113
8850	.36	.75	.28	308	.21	.07	.42	19	116
8840	.42	.76	.29	308	.22	.07	.36	16	85
8830	.49	.81	.31	412	.25	.06	.41	12	83
8820	.60	.91	.34	0	.31	.03	.31	5	51
8810	.25	.74	.19	330	.14	.05	.37	20	148
8800	.26	.75	.20	308	.15	.05	.35	19	134
8790	.69	.83	.48	305	.40	.08	.39	11	56
8780	.82	.86	.69	0	.59	.10	.33	12	40
8770	.69	.84	.62	308	.52	.10	.33	14	47
8760	.23	.73	.22	307	.16	.06	.29	26	126
8710	.13	.90	.10	0	.09	.01	.31	7	238
8700	.53	.73	.45	308	.33	.12	.34	22	64
8690	.41	.82	.33	308	.27	.06	.36	14	87
8680	.55	.74	.35	308	.26	.09	.28	16	50
8670	.49	.69	.36	414	.25	.11	.61	22	124
8660	.40	.62	.39	330	.24	.15	.39	37	97
8570	.96	.75	.61	308	.46	.15	.36	15	37
8560	1.10	.72	.81	373	.58	.23	.51	20	46
8550	1.04	.76	.82	377	.62	.20	.54	19	51
8540	.39	.81	.26	340	.21	.05	.32	12	82
8530	.44	.75	.32	308	.24	.08	.35	18	79
8520	1.64	.85	1.22	308	1.04	.18	.50	10	30
8510	.64	.66	.56	341	.37	.19	.46	29	71
8500	2.01	.65	1.92	381	1.25	.67	.57	33	28
8410	1.31	.61	1.27	383	.77	.50	1.02	38	77
8400	.79	.62	.93	430	.58	.35	.78	44	98
8390	.81	.87	.54	414	.47	.07	.37	8	45
8380	.80	.72	.60	307	.43	.17	.39	21	48
8370	.88	.88	.50	308	.44	.06	.30	6	34
8360	.90	.68	.74	377	.50	.24	.39	26	43
8350	.90	.66	.59	389	.39	.20	.41	22	45
8340	1.25	.62	.94	382	.58	.36	.46	28	36
8330	.31	.61	.23	409	.14	.09	.41	29	132
8320	.24	.79	.14	300	.11	.03	.31	12	129
8310	.81	.64	.39	308	.25	.14	.36	17	44
8300	.33	.70	.27	331	.19	.08	.43	24	130
8270	.54	.74	.39	308	.29	.10	.47	18	87
8260	.47	.63	.41	411	.26	.15	.46	31	97
8250	.14	.74	.23	336	.17	.06	.35	42	250

8220	.58	.73	.55	357	.40	.15	.42	25	72
8210	.42	.43	.53	383	.23	.30	.43	71	102
8200	.83	.73	.60	336	.44	.16	.42	19	50
8190	1.23	.86	.51	395	.44	.07	.46	5	37
8180	1.52	.79	.73	308	.58	.15	.32	9	21
8170	1.01	.82	.44	308	.36	.08	.43	7	42
8160	.79	.80	.30	307	.24	.06	.32	7	40
8150	.71	.65	.49	329	.32	.17	.31	23	43
8140	.29	.84	.19	307	.16	.03	.28	10	96
8130	.34	.55	.33	433	.18	.15	.43	44	126
8120	.44	.62	.50	423	.31	.19	.55	43	124
8110	.40	.80	.20	332	.16	.04	.32	10	80
8100	.34	.74	.23	308	.17	.06	.31	17	91
8090	.36	.37	.51	435	.19	.32	.75	88	208
8080	.95	.79	.52	363	.41	.11	.41	11	43
8070	.20	.60	.20	408	.12	.08	.29	40	145
8060	1.07	.80	.59	362	.47	.12	.29	11	27
8050	.93	.71	.49	359	.35	.14	.57	15	61
8040	1.03	.86	.56	0	.48	.08	.33	7	32
8030	.53	.66	.41	411	.27	.14	.45	26	84
8020	.42	.78	.23	340	.18	.05	.28	11	66
8010	1.28	.55	1.48	430	.82	.66	.99	51	77
8000	.86	.62	.78	429	.48	.30	.62	34	72
7990	.69	.64	.55	426	.35	.20	.58	28	84
7970	1.01	.61	.92	430	.56	.36	.78	35	77
7950	1.07	.82	.61	374	.50	.11	.31	10	28
7940	1.26	.87	.67	308	.58	.09	.32	7	25
7930	1.17	.89	.57	308	.51	.06	.28	5	23
7920	1.56	.79	.66	330	.52	.14	.36	8	23
7900	1.61	.61	.87	393	.53	.34	.59	21	36
7870	.71	.72	.39	308	.28	.11	.35	15	49
7860	.80	.83	.24	308	.20	.04	.27	5	33
7850	.86	.88	.26	308	.23	.03	.24	3	27
7840	.71	.70	.27	348	.19	.08	.31	11	43
7830	.68	.75	.24	308	.18	.06	.20	8	29
7820	.76	.70	.33	444	.23	.10	.34	13	44
7810	.67	.68	.34	308	.23	.11	.30	16	44
7800	.35	.70	.27	405	.19	.08	.35	22	100
7790	1.34	.72	.32	361	.23	.09	.32	6	23
7780	1.05	.76	.50	372	.38	.12	.39	11	37
7770	.62	.71	.38	355	.27	.11	.36	17	58
7760	.56	.67	.33	425	.22	.11	.31	19	55
7750	.91	.73	.44	362	.32	.12	.48	13	52
7740	.75	.60	.35	421	.21	.14	.42	18	56
7730	1.16	.75	.52	347	.39	.13	.41	11	35
7720	1.60	.76	.74	357	.56	.18	.41	11	25
7710	1.33	.65	.57	385	.37	.20	.45	15	33
7700	1.46	.87	.69	344	.60	.09	.41	6	28
7690	1.55	.79	.63	329	.50	.13	.48	8	30
7680	1.28	.81	.58	374	.47	.11	.43	8	33
7670	1.82	.89	.71	363	.63	.08	.42	4	23
7660	1.57	.74	.70	381	.52	.18	.44	11	28

7650	1.52	.85	.68	309	.58	.10	.47	6	30
7640	.75	.77	.40	334	.31	.09	.47	12	62
7630	.92	.84	.58	356	.49	.09	.42	9	45
7620	.57	.84	.31	309	.26	.05	.41	8	71
7610	.49	.87	.23	346	.20	.03	.38	6	77
7600	.88	.79	.47	370	.37	.10	.41	11	46
7590	.40	.60	.47	433	.28	.19	.76	47	190
7580	.38	.85	.20	348	.17	.03	.27	7	71
7580	2.71	.03	1.45	435	.05	1.40	.80	51	29
7570	1.19	.81	.47	356	.38	.09	.35	7	29
7560	.29	.87	.16	0	.14	.02	.29	6	100
7550	.52	.87	.30	0	.26	.04	.36	7	69
7540	.78	.81	.42	309	.34	.08	.39	10	50
7530	.36	.94	.16	309	.15	.01	.31	2	86
7520	1.05	.83	.58	309	.48	.10	.44	9	41
7510	.34	.83	.23	303	.19	.04	.29	11	85
7500	.20	.87	.16	308	.14	.02	.28	10	140
7490	.47	.82	.28	0	.23	.05	.33	10	70
7480	.66	.83	.35	364	.29	.06	.39	9	59
7470	.58	.95	.21	426	.20	.01	.25	1	43
7460	.42	.81	.21	304	.17	.04	.28	9	66
7450	.47	.89	.19	301	.17	.02	.30	4	63
7440	.89	.85	.39	309	.33	.06	.33	6	37
7430	.40	.88	.24	0	.21	.03	.18	7	45
7420	.41	.83	.23	0	.19	.04	.28	9	68
7410	.45	.87	.15	0	.13	.02	.25	4	55
7400	.39	.90	.20	0	.18	.02	.27	5	69
7390	.46	.85	.27	0	.23	.04	.25	8	54
7380	.24	.84	.19	309	.16	.03	.24	12	100
7370	.14	.81	.31	353	.25	.06	.36	42	257
7360	.18	.85	.13	0	.11	.02	.21	11	116
7350	.28	.94	.16	0	.15	.01	.21	3	75
7340	.38	.94	.17	0	.16	.01	.18	2	47
7330	.29	.84	.19	0	.16	.03	.28	10	96
7320	.26	1.00	.12	0	.12	0.00	.26	0	100
7310	.28	.92	.13	0	.12	.01	.33	3	117
7300	.47	.71	.28	414	.20	.08	.49	17	104
7290	.26	.43	.21	434	.09	.12	.42	46	161
7280	.25	.60	.15	382	.09	.06	.26	24	104
7270	.39	.78	.18	0	.14	.04	.31	10	79
7260	.33	.68	.19	332	.13	.06	.37	18	112
7250	.27	.73	.15	0	.11	.04	.42	14	155
7240	.39	.63	.27	300	.17	.10	.54	25	138
7230	.59	.65	.23	300	.15	.08	.23	13	38
7220	.44	.67	.24	340	.16	.08	.32	18	72
7210	.45	.70	.23	300	.16	.07	.36	15	80
7200	.72	.71	.42	401	.30	.12	.47	16	65
7190	.57	.85	.26	0	.22	.04	.35	7	61
7180	.41	.82	.17	0	.14	.03	.28	7	68
7170	.28	.77	.13	300	.10	.03	.24	10	85
7160	.19	.56	.09	300	.05	.04	.20	21	105
7150	.17	.53	.15	320	.08	.07	.31	41	182

7140	.14	.45	.11	0	.05	.06	.28	42	200
7130	.30	.53	.15	336	.08	.07	.33	23	110
7120	.29	1.00	.04	0	.04	0.00	.32	0	110
7110	.15	.50	.06	326	.03	.03	.23	20	153
7100	.17	.50	.06	0	.03	.03	.25	17	147
7090	.31	.67	.06	332	.04	.02	.24	6	77
7080	.32	.50	.08	0	.04	.04	.26	12	81
7070	.46	.58	.12	300	.07	.05	.34	10	73
7060	.12	.67	.03	300	.02	.01	.20	8	166
7050	.45	.57	.14	362	.08	.06	.45	13	100
7040	.62	.50	.08	344	.04	.04	.38	6	61
7030	.41	.50	.08	323	.04	.04	.32	9	78
7020	.17	.50	.08	300	.04	.04	.26	23	152
7010	.08	.57	.07	0	.04	.03	.24	37	300
7000	.12	.50	.10	325	.05	.05	.25	41	208
6990	.07	.50	.04	300	.02	.02	.22	28	314
6980	.19	.62	.13	0	.08	.05	.31	26	163
6970	.16	.60	.05	351	.03	.02	.25	12	156
6960	.15	.89	.09	446	.08	.01	.27	6	180
6950	.20	.67	.12	380	.08	.04	.32	20	160
6940	.29	.64	.14	300	.09	.05	.28	17	96
6930	.20	.50	.12	405	.06	.06	.29	30	145
6920	.16	.36	.11	352	.04	.07	.23	43	143
6910	.15	.50	.06	317	.03	.03	.23	20	153
6900	.31	.78	.09	421	.07	.02	.45	6	145
6890	.31	.78	.09	0	.07	.02	.34	6	109
6880	.37	.67	.15	322	.10	.05	.41	13	110
6870	.09	.50	.02	0	.01	.01	.22	11	244
6860	.13	.75	.04	0	.03	.01	.22	7	169
6850	.15	.29	.07	358	.02	.05	.21	33	140
6840	.15	.33	.06	326	.02	.04	.20	26	133
6830	.12	.50	.08	0	.04	.04	.26	33	216
6820	.24	.67	.03	310	.02	.01	.20	4	83
6810	.30	.46	.13	331	.06	.07	.28	23	93
6800	.30	.71	.17	0	.12	.05	.29	16	96
6790	.30	.67	.15	309	.10	.05	.29	16	96
6780	.01	0.00	.01	0	0.00	.01	.08	100	800
6770	.26	.65	.20	373	.13	.07	.93	26	357
6760	.20	.71	.24	388	.17	.07	.82	35	410
6750	.01	0.00	.01	0	0.00	.01	.01	100	100
6740	.23	.60	.15	426	.09	.06	.38	26	165
6730	.23	.69	.13	0	.09	.04	.40	17	173
6720	.21	.65	.20	421	.13	.07	.42	33	200
6710	.29	.69	.16	350	.11	.05	.49	17	168
6700	.19	.80	.10	0	.08	.02	.36	10	189
6690	.16	.69	.13	0	.09	.04	.19	25	118
6690	.21	1.00	.06	0	.06	0.00	.28	0	133
6680	.22	.83	.06	0	.05	.01	.28	4	127
6680	.20	.70	.10	307	.07	.03	.25	15	125
6670	.21	.70	.20	0	.14	.06	.29	28	138
6670	.09	.33	.03	316	.01	.02	.19	22	211
6660	.17	.75	.12	411	.09	.03	.37	17	217

6650	.18	.73	.11	332	.08	.03	.37	16	205
6640	.15	.45	.11	0	.05	.06	.30	40	200
6630	.18	.67	.15	0	.10	.05	.38	27	211
6620	.20	1.00	.06	0	.06	0.00	.32	0	160
6610	.19	.87	.08	0	.07	.01	.26	5	136
6600	.13	.85	.13	0	.11	.02	.41	15	315
6590	.19	.58	.12	0	.07	.05	.28	26	147
6580	.19	.63	.08	349	.05	.03	.26	15	136
6570	.11	.40	.10	318	.04	.06	.24	54	218
6560	.14	.67	.18	422	.12	.06	.39	42	278
6550	.12	.83	.06	0	.05	.01	.22	8	183
6540	.17	1.00	.02	0	.02	0.00	.21	0	123
6530	.16	1.00	.02	0	.02	0.00	.21	0	131
6520	.11	1.00	.05	0	.05	0.00	.34	0	309
6510	.09	1.00	.02	0	.02	0.00	.27	0	300
6500	.11	.75	.08	315	.06	.02	.30	18	272
6490	.17	.67	.06	320	.04	.02	.28	11	164
6480	.13	.60	.10	0	.06	.04	.29	30	223
6470	.08	1.00	.03	0	.03	0.00	.26	0	325
6460	.11	.75	.04	0	.03	.01	.21	9	190
6450	.08	1.00	.03	0	.03	0.00	.22	0	275
6440	.19	.71	.14	0	.10	.04	.32	21	168
6430	.10	1.00	.03	0	.03	0.00	.29	0	290
6420	.07	1.00	.04	0	.04	0.00	.27	0	385
6410	.11	1.00	.05	0	.05	0.00	.61	0	554
6400	.09	.67	.12	346	.08	.04	.67	44	744
6390	.07	.57	.07	0	.04	.03	.58	42	828
6380	.11	.80	.10	0	.08	.02	.50	18	454
6370	.05	.43	.07	336	.03	.04	.36	80	720
6360	.05	1.00	.02	0	.02	0.00	.28	0	560
6350	.04	.50	.04	0	.02	.02	.35	50	875
6340	.09	.78	.09	0	.07	.02	.51	22	566
6330	.05	1.00	.03	0	.03	0.00	.35	0	700
6320	.10	.60	.10	0	.06	.04	.40	40	400
6310	.04	.33	.03	335	.01	.02	.18	50	450
6300	.13	.82	.11	450	.09	.02	.48	15	369
6280	.06	.83	.06	445	.05	.01	.25	16	416
6270	.08	.75	.04	339	.03	.01	.38	12	475
6260	.09	.80	.10	0	.08	.02	.44	22	488
6250	.01	.74	.19	0	.14	.05	.34	5003	400
6240	.10	1.00	.08	0	.08	0.00	.27	0	270
6230	.11	1.00	.06	0	.06	0.00	.20	0	181
6220	.09	1.00	.07	0	.07	0.00	.26	0	288
6210	.13	1.00	.11	0	.11	0.00	.27	0	207
6200	.08	1.00	.09	0	.09	0.00	.22	0	275
6190	.13	.91	.11	0	.10	.01	.26	7	200
6180	.10	1.00	.05	0	.05	0.00	.22	0	220
6170	.13	.91	.11	0	.10	.01	.32	7	246
6150	.11	.80	.20	342	.16	.04	.40	36	363
6140	.16	.75	.12	0	.09	.03	.38	18	237
6130	.15	1.00	.07	0	.07	0.00	.21	0	140
6120	.14	.80	.15	306	.12	.03	.38	21	271

6110	.20	.77	.13	331	.10	.03	.49	15	245
6100	.23	.68	.31	398	.21	.10	.88	43	382
6090	.34	.61	.33	434	.20	.13	.49	38	144
6080	.35	.43	.35	443	.15	.20	1.51	57	431
6070	.56	.28	1.95	416	.55	1.40	.94	250	167
6060	.17	.76	.17	305	.13	.04	.56	23	329
6060	.23	.64	.14	305	.09	.05	.34	21	147
6050	.29	.71	.14	353	.10	.04	.36	13	124
6040	.44	.67	.24	330	.16	.08	.49	18	111
6030	.54	.71	.31	347	.22	.09	.29	16	53
6020	.31	1.00	.10	0	.10	0.00	.29	0	93
6010	.67	.55	.29	372	.16	.13	.20	19	29
6000	.37	.65	.26	352	.17	.09	.36	24	97
5990	.50	.66	.29	347	.19	.10	.38	20	76
5980	.29	.69	.16	395	.11	.05	.36	17	124
5970	.24	.72	.18	306	.13	.05	.46	20	191
5960	.26	.75	.16	306	.12	.04	.55	15	211
5950	.31	.73	.15	306	.11	.04	.31	12	100
5940	.46	.72	.25	350	.18	.07	.31	15	67
5930	.32	.77	.13	410	.10	.03	.26	9	81
5920	.41	.68	.25	417	.17	.08	.45	19	109
5910	.53	.71	.28	366	.20	.08	.34	15	64
5900	.51	.71	.24	392	.17	.07	.47	13	92
5890	.44	.72	.29	306	.21	.08	.39	18	88
5880	.49	.77	.31	339	.24	.07	.74	14	151
5870	.35	1.00	.07	0	.07	0.00	.18	0	51
5860	.20	.86	.07	356	.06	.01	.37	5	185
5850	.30	.81	.16	367	.13	.03	.28	10	93
5840	.26	.82	.11	306	.09	.02	.17	7	65
5830	.30	.80	.10	366	.08	.02	.44	6	146
5820	.58	.67	.39	443	.26	.13	.38	22	65
5810	.62	.61	.44	377	.27	.17	.43	27	69
5800	.71	.59	.39	418	.23	.16	.35	22	49
5790	.32	.59	.22	350	.13	.09	.40	28	125
5780	.51	.50	1.39	435	.70	.69	1.29	135	252
5770	.51	.52	1.05	437	.55	.50	1.10	98	215
5760	.33	.57	.23	319	.13	.10	.41	30	124
5750	.27	.59	.22	0	.13	.09	.44	33	162
5740	.25	.59	.29	358	.17	.12	.45	48	180
5730	.19	.56	.18	317	.10	.08	.33	42	173
5720	.19	.53	.19	339	.10	.09	.35	47	184
5710	.31	.64	.61	409	.39	.22	1.05	70	338
5700	.26	.53	.17	350	.09	.08	.53	30	203
5690	.35	.60	.20	309	.12	.08	.57	22	162
5680	.27	.69	.26	331	.18	.08	.72	29	266
5670	.35	.67	.24	399	.16	.08	.74	22	211
5660	.45	.59	.71	479	.42	.29	.94	64	208
5650	.27	.57	.14	330	.08	.06	.45	22	166
5640	.31	.57	.44	440	.25	.19	.83	61	267
5630	.45	.53	.32	339	.17	.15	.50	33	111
5610	.35	.50	.16	336	.08	.08	.56	22	159
5600	.44	.45	.29	335	.13	.16	.71	36	161

5590	.44	.52	.25	432	.13	.12	.50	27	113
5580	.55	.63	1.15	380	.72	.43	1.24	78	225
5570	.41	.44	.25	348	.11	.14	.52	34	126
5560	.39	.55	.20	0	.11	.09	.53	23	135
5550	.41	.71	.14	442	.10	.04	.53	9	129
5540	.44	.52	.21	377	.11	.10	.57	22	129
5530	.39	.48	.27	371	.13	.14	.52	35	133
5520	.50	.49	.85	415	.42	.43	.92	86	184
5510	.30	.55	.20	358	.11	.09	.50	30	166
5500	.36	.44	.27	344	.12	.15	.54	41	150
5490	.25	.59	.17	303	.10	.07	.47	27	188
5480	.27	.53	.19	0	.10	.09	.44	33	162
5470	.25	.48	.21	307	.10	.11	.45	44	180
5460	.33	.52	.21	321	.11	.10	.41	30	124
5450	.37	.52	.23	0	.12	.11	.45	29	121
5440	.32	.57	.21	330	.12	.09	.43	28	134
5430	.27	.67	.15	0	.10	.05	.48	18	177
5430	.36	.35	.20	333	.07	.13	.46	36	127
5420	.37	.54	.26	446	.14	.12	.58	32	156
5410	.31	.61	.18	337	.11	.07	.55	22	177
5400	.29	.48	.25	358	.12	.13	.47	44	162
5390	.29	.42	.26	316	.11	.15	.51	51	175
5380	.25	.59	.17	330	.10	.07	.53	27	212
5370	.30	.52	.21	329	.11	.10	.41	33	136
5360	.28	.73	.11	0	.08	.03	.49	10	175
5350	.32	.48	.23	0	.11	.12	.52	37	162
5330	.28	.53	.17	305	.09	.08	.45	28	160
5320	.38	.50	.20	0	.10	.10	.44	26	115
5310	.65	.59	.39	316	.23	.16	.53	24	81
5300	.38	.50	.26	444	.13	.13	.57	34	150
5290	.36	.73	.26	348	.19	.07	.55	19	152
5280	.38	.61	.28	358	.17	.11	.52	28	136
5240	.82	.49	.63	380	.31	.32	.58	39	70
5230	.40	.62	.29	437	.18	.11	.55	27	137
5220	.48	.68	.38	0	.26	.12	.51	25	106
5210	.55	.60	.40	319	.24	.16	.55	29	100
5200	.44	.54	.48	316	.26	.22	.66	50	150
5190	.34	.73	.15	0	.11	.04	.37	11	108
5180	.37	.58	.26	0	.15	.11	.44	29	118
5170	.40	.60	.25	372	.15	.10	.43	25	107
5160	.49	.51	.39	0	.20	.19	.50	38	102
5150	.33	.58	.26	432	.15	.11	.47	33	142
5140	.37	.64	.28	426	.18	.10	.48	27	129
5130	.49	.65	.49	328	.32	.17	.70	34	142
5120	.28	.65	.23	0	.15	.08	.42	28	150
5110	.26	.64	.28	331	.18	.10	.59	38	226
5100	.26	.65	.26	0	.17	.09	.39	34	150
5090	.25	.57	.28	316	.16	.12	.38	48	152
5080	.30	.57	.23	0	.13	.10	.36	33	120
5070	.31	.53	.30	0	.16	.14	.36	45	116
5060	.45	.52	.48	309	.25	.23	.43	51	95
5050	.51	.51	.49	340	.25	.24	.48	47	94

5040	.39	.67	.30	404	.20	.10	.42	25	107
5030	.66	.46	.50	339	.23	.27	.55	40	83
5020	.36	.64	.44	336	.28	.16	.74	44	205
5010	.61	.67	.40	305	.27	.13	.54	21	88
5000	.32	.67	.27	0	.18	.09	.46	28	143
4990	.30	.61	.33	0	.20	.13	.42	43	140
4980	.34	.64	.36	0	.23	.13	.52	38	152
4970	.38	.63	.24	0	.15	.09	.40	23	105
4960	.27	.56	.27	341	.15	.12	.28	44	103
4950	.42	.54	.35	328	.19	.16	.40	38	95
4940	.35	.59	.32	0	.19	.13	.54	37	154
4930	.25	.65	.26	0	.17	.09	.47	36	188
4920	.33	.65	.63	333	.41	.22	.59	66	178
4910	.35	.64	.33	409	.21	.12	.53	34	151
4900	.37	.60	.43	332	.26	.17	.70	45	189
4890	.34	.63	.27	0	.17	.10	.47	29	138
4880	.32	.68	.22	0	.15	.07	.48	21	150
4870	.25	.43	.14	0	.06	.08	.34	32	136
4860	.30	.64	.28	324	.18	.10	.42	33	140
4850	.40	.50	.24	378	.12	.12	.41	30	102
4840	.39	.61	.54	309	.33	.21	.64	53	164
4830	.31	.57	.23	0	.13	.10	.51	32	164
4820	.30	.61	.23	0	.14	.09	.45	30	150
4810	.30	.56	.27	371	.15	.12	.53	40	176
4800	.27	.68	.28	0	.19	.09	.47	33	174
4790	.34	.65	.31	413	.20	.11	.44	32	129
4780	.92	.51	.63	334	.32	.31	.50	33	54
4770	.46	.61	.31	357	.19	.12	.48	26	104
4760	.50	.52	.64	341	.33	.31	.57	62	114
4750	.40	.65	.31	0	.20	.11	.52	27	130
4740	.21	.65	.17	332	.11	.06	.30	28	142
4730	.20	.63	.16	311	.10	.06	.35	30	175
4720	.21	.65	.17	0	.11	.06	.37	28	176
4710	.24	.68	.19	0	.13	.06	.41	25	170
4700	.27	.65	.31	310	.20	.11	.50	40	185
4690	.25	.71	.21	303	.15	.06	.36	24	144
4680	.27	.72	.32	308	.23	.09	.42	33	155
4670	.34	.69	.32	306	.22	.10	.34	29	100
4660	.34	.65	.40	341	.26	.14	.40	41	117
4650	.43	.57	.46	340	.26	.20	.40	46	93
4640	.55	.61	.38	335	.23	.15	.30	27	54
4630	.50	.55	.40	381	.22	.18	.46	36	92
4620	.26	.54	.24	0	.13	.11	.36	42	138
4610	.34	.66	.32	0	.21	.11	.33	32	97
4600	.23	.55	.29	311	.16	.13	.54	56	234
4590	.20	.63	.35	405	.22	.13	.60	65	300
4580	.36	.59	.34	344	.20	.14	.48	38	133
4570	.40	.71	.34	0	.24	.10	.50	25	125
4560	.38	.62	.34	322	.21	.13	.34	34	89
4550	.32	.69	.29	0	.20	.09	.32	28	100
4540	.40	.73	.44	410	.32	.12	.42	30	105
4530	.39	.54	.48	333	.26	.22	.42	56	107

4520	.57	.60	.57	336	.34	.23	.34	40	59
4510	.60	.57	.51	384	.29	.22	.25	36	41
4500	.72	.49	.61	421	.30	.31	.24	43	33
4490	.51	.61	.59	372	.36	.23	.54	45	105
4480	.46	.57	.65	370	.37	.28	.70	60	152
4460	.38	.63	.35	346	.22	.13	.53	34	139
4450	.41	.66	.38	342	.25	.13	.48	31	117
4440	.38	.69	.36	343	.25	.11	.49	28	128
4430	.23	.60	.25	311	.15	.10	.40	43	173
4420	.24	.75	.16	0	.12	.04	.39	16	162
4410	.28	.64	.25	0	.16	.09	.36	32	128
4400	.31	.66	.32	440	.21	.11	.48	35	154
4390	.37	.68	.34	312	.23	.11	.32	29	86
4380	.35	.58	.36	0	.21	.15	.39	42	111
4370	.28	.59	.29	0	.17	.12	.44	42	157
4360	.37	.71	.34	307	.24	.10	.36	27	97
4350	.41	.60	.45	338	.27	.18	.36	43	87
4340	.26	.58	.26	311	.15	.11	.32	42	123
4330	.33	.67	.24	0	.16	.08	.32	24	96
4320	.34	.61	.28	329	.17	.11	.34	32	100
4310	.28	.57	.23	0	.13	.10	.32	35	114
4300	.23	.58	.24	0	.14	.10	.40	43	173
4290	.24	.57	.23	311	.13	.10	.37	41	154
4280	.22	.62	.26	442	.16	.10	.35	45	159
4270	.24	.61	.28	354	.17	.11	.38	45	158
4260	.25	.57	.23	360	.13	.10	.38	40	152
4250	.25	.63	.27	0	.17	.10	.35	40	140
4240	.27	.59	.29	0	.17	.12	.37	44	137
4230	.31	.58	.26	0	.15	.11	.32	35	103
4220	.31	.64	.28	0	.18	.10	.32	32	103
4210	.32	.56	.27	0	.15	.12	.40	37	125
4200	.36	.68	.25	0	.17	.08	.39	22	108
4180	.57	.55	.38	358	.21	.17	.41	29	71
4170	.53	.66	.38	334	.25	.13	.61	24	115
4160	.78	.61	.54	337	.33	.21	.56	26	71
4150	.71	.72	.43	366	.31	.12	.50	16	70
4140	.76	.65	.49	443	.32	.17	.52	22	68
4130	.49	.66	.35	0	.23	.12	.28	24	57
4120	.42	.76	.21	321	.16	.05	.34	11	80
4110	.46	.64	.33	0	.21	.12	.40	26	86
4100	.56	.67	.43	327	.29	.14	.37	25	66
4090	.62	.58	.53	338	.31	.22	.39	35	62
4080	.41	.63	.19	329	.12	.07	.33	17	80
4070	.49	.67	.30	381	.20	.10	.30	20	61
4060	.66	.59	.64	338	.38	.26	.44	39	66
4050	.57	.65	.37	410	.24	.13	.40	22	70
4040	.57	.63	.38	338	.24	.14	.36	24	63
4030	.39	.71	.21	0	.15	.06	.29	15	74
4020	.50	.56	.25	313	.14	.11	.31	22	62
4010	.42	.80	.20	0	.16	.04	.32	9	76
4000	.47	.61	.28	0	.17	.11	.34	23	72
3990	.46	.72	.25	0	.18	.07	.36	15	78

3980	.49	.64	.36	0	.23	.13	.39	26	79
3960	.66	.63	.32	331	.20	.12	.29	18	43
3950	.76	.62	.34	330	.21	.13	.36	17	47
3940	.58	.56	.43	337	.24	.19	.36	32	62
3930	.55	.72	.25	0	.18	.07	.35	12	63
3920	.46	.80	.20	320	.16	.04	.33	8	71
3910	.41	.74	.19	445	.14	.05	.31	12	75
3900	.44	.74	.23	350	.17	.06	.33	13	75
3890	.44	.73	.26	329	.19	.07	.30	15	68
3880	.41	.71	.24	322	.17	.07	.27	17	65
3870	.43	.64	.25	0	.16	.09	.32	20	74
3860	.58	.65	.34	337	.22	.12	.33	20	56
3850	.73	.63	.27	339	.17	.10	.30	13	41
3840	.84	.63	.60	368	.38	.22	.46	26	54
3830	.67	.64	.42	345	.27	.15	.36	22	53
3820	.59	.58	.31	331	.18	.13	.30	22	50
3810	.64	.73	.26	0	.19	.07	.30	10	46
3800	.55	.56	.41	332	.23	.18	.41	32	74
3790	.47	.61	.31	435	.19	.12	.38	25	80
3780	.58	.64	.33	354	.21	.12	.38	20	65
3770	.62	.60	.45	362	.27	.18	.35	29	56
3760	.56	.58	.36	361	.21	.15	.35	26	62
3750	.66	.55	.42	333	.23	.19	.35	28	53
3740	.52	.58	.31	436	.18	.13	.41	25	78
3730	.52	.61	.31	357	.19	.12	.31	23	59
3720	.47	.70	.23	306	.16	.07	.38	14	80
3710	.60	.64	.36	326	.23	.13	.33	21	55
3700	.48	.65	.34	0	.22	.12	.36	25	75
3690	.55	.61	.33	0	.20	.13	.30	23	54
3680	.60	.59	.39	367	.23	.16	.33	26	55
3670	.80	.38	.74	344	.28	.46	.39	57	48
3660	.45	.62	.29	445	.18	.11	.29	24	64
3650	.35	.72	.18	366	.13	.05	.27	14	77
3640	.02	.56	.32	341	.18	.14	.30	6991	500
3630	.89	.78	.36	332	.28	.08	.80	8	89
3620	1.30	.66	.44	336	.29	.15	.80	11	61
3610	2.13	.75	.51	398	.38	.13	.70	6	32
3600	1.74	.80	.50	447	.40	.10	.70	5	40
3590	1.74	.73	.79	0	.58	.21	.80	12	45
3580	2.08	.74	.90	319	.67	.23	.83	11	39
3570	.05	.80	.64	0	.51	.13	.98	2601	960
3560	2.64	.80	.45	0	.36	.09	1.10	3	41
3550	.85	.62	.61	337	.38	.23	.84	27	98
3530	.87	.66	.53	331	.35	.18	.65	20	74
3520	.69	.72	.36	337	.26	.10	.51	14	73
3510	.65	.71	.34	321	.24	.10	.56	15	86
3500	.64	.79	.29	338	.23	.06	.55	9	85
3490	.51	.66	.44	0	.29	.15	.47	29	92
3480	.57	.64	.53	309	.34	.19	.52	33	91
3470	.48	.58	.45	0	.26	.19	.46	39	95
3460	.57	.59	.39	332	.23	.16	.47	28	82
3450	.57	.63	.35	0	.22	.13	.38	22	66

3430	.47	.58	.33	0	.19	.14	.44	29	93
3420	.73	.64	.39	438	.25	.14	.35	19	47
3410	.69	.60	.43	367	.26	.17	.41	24	59
3400	.73	.59	.51	330	.30	.21	.42	28	57
3390	.46	.54	.28	0	.15	.13	.41	28	89
3380	.53	.59	.27	315	.16	.11	.41	20	77
3370	.53	.50	.36	393	.18	.18	.59	33	111
3360	.48	.58	.31	323	.18	.13	.38	27	79
3350	.77	.64	.44	436	.28	.16	.40	20	51
3340	.65	.54	.39	315	.21	.18	.30	27	46
3330	.50	.58	.24	0	.14	.10	.28	20	55
3320	.63	.63	.38	306	.24	.14	.39	22	61
3310	.70	.63	.27	0	.17	.10	.30	14	42
3300	.52	.58	.26	437	.15	.11	.27	21	51
3290	.76	.73	.15	372	.11	.04	.29	5	38
3280	.61	.73	.15	318	.11	.04	.32	6	52
3270	.58	.68	.25	0	.17	.08	.29	13	50
3260	.54	.61	.36	0	.22	.14	.27	25	50
3250	.57	.65	.26	0	.17	.09	.28	15	49
3240	.59	.59	.32	334	.19	.13	.33	22	55
3230	.54	.55	.33	335	.18	.15	.30	27	55
3220	.52	.63	.35	307	.22	.13	.31	25	59
3210	.69	.05	.19	0	.01	.18	.32	26	46
3200	.73	.69	.35	0	.24	.11	.32	15	43
3190	.67	.60	.55	335	.33	.22	.34	32	50
3180	.79	.65	.23	380	.15	.08	.29	10	36
3170	1.04	.71	.65	376	.46	.19	.34	18	32
3160	1.12	.64	.67	374	.43	.24	.31	21	27
3158	.11	.38	.24	434	.09	.15	.12	136	109
3150	.93	.67	.81	326	.54	.27	.40	29	43
3140	1.09	.73	.45	349	.33	.12	.30	11	27
3130	.76	.61	.54	347	.33	.21	.30	27	39
3120	1.10	.65	.57	438	.37	.20	.30	18	27
3114	.10	.25	.20	374	.05	.15	.35	150	350
3110	1.13	.68	.88	335	.60	.28	.29	24	25
3100	1.03	.61	.67	334	.41	.26	.26	25	25
3090	.77	.61	.57	339	.35	.22	.26	28	33
3080	.88	.67	.55	366	.37	.18	.26	20	29
3070	.78	.63	.49	303	.31	.18	.22	23	28
3060	.72	.62	.52	335	.32	.20	.17	27	23
3050	.86	.65	.63	333	.41	.22	.23	25	26
3040	.90	.69	.54	341	.37	.17	.23	18	25
3030	.79	.58	.57	338	.33	.24	.25	30	31
3020	.81	.73	.49	336	.36	.13	.19	16	23
3010	1.10	.66	.47	432	.31	.16	.16	14	14
3000	1.03	.65	.55	335	.36	.19	.16	18	15
2990	1.13	.71	.45	324	.32	.13	.18	11	15
2980	.02	.70	.30	433	.21	.09	.21	4501	050
2970	1.38	.71	.38	335	.27	.11	.25	7	18
2960	1.44	.51	.73	338	.37	.36	.20	25	13
2950	1.66	.61	1.08	328	.66	.42	.33	25	19
2940	1.66	.69	.39	340	.27	.12	.23	7	13

2930	1.50	.70	.80	338	.56	.24	.17	16	11
2920	1.39	.67	1.06	386	.71	.35	.10	25	7
2910	1.69	.71	1.20	366	.85	.35	.17	20	10
2900	1.18	.68	.95	325	.65	.30	.19	25	16
2890	2.86	.66	1.88	406	1.25	.63	.27	22	9
2880	2.88	.71	1.85	440	1.32	.53	.15	18	5
2870	2.36	.69	.62	516	.43	.19	.12	8	5
2860	2.07	.66	.82	493	.54	.28	.15	13	7
2850	2.76	.67	1.32	385	.89	.43	.23	15	8
2840	3.38	.69	1.62	404	1.12	.50	.19	14	5
2830	3.51	.63	2.43	333	1.53	.90	.34	25	9
2820	3.94	.61	3.63	336	2.23	1.40	.50	35	12
2810	5.09	.69	3.31	391	2.29	1.02	.45	20	8
2800	4.27	.73	2.74	389	1.99	.75	.30	17	7
2790	4.29	.66	3.07	333	2.03	1.04	.39	24	9
2780	4.23	.71	3.25	332	2.30	.95	.56	22	13
2760	1.73	.70	1.15	363	.80	.35	.23	20	13
2750	1.93	.63	1.45	335	.92	.53	.30	27	15
2740	1.74	.65	1.47	332	.95	.52	.23	29	13
2730	2.00	.68	1.39	330	.94	.45	.19	22	9
2720	1.23	.68	1.34	331	.91	.43	.23	34	18
2710	1.14	.67	.96	333	.64	.32	.18	28	15
2700	1.03	.58	.64	346	.37	.27	.16	26	15
2690	.71	.67	.52	338	.35	.17	.21	23	29
2680	.84	.60	.57	335	.34	.23	.21	27	25
2670	1.15	.61	.79	335	.48	.31	.30	26	26
2660	1.07	.66	.64	335	.42	.22	.21	20	19
2650	.30	.67	.45	328	.30	.15	.17	50	56
2640	.89	.58	.48	0	.28	.20	.25	22	28
2630	.84	.49	.53	340	.26	.27	.29	32	34
2620	1.00	.56	.59	337	.33	.26	.27	26	27
2610	.87	.53	.51	339	.27	.24	.23	27	26
2600	.97	.52	.82	335	.43	.39	.34	40	35
2590	1.10	.59	.66	373	.39	.27	.46	24	41
2580	.80	.52	.56	336	.29	.27	.35	33	43
2570	.88	.67	.42	339	.28	.14	.27	15	30
2560	.86	.61	.49	331	.30	.19	.22	22	25
2550	1.02	.54	.72	370	.39	.33	.41	32	40
2540	.87	.54	.59	333	.32	.27	.42	31	48
2530	.97	.56	.62	362	.35	.27	.47	27	48
2520	.88	.63	.73	330	.46	.27	.34	30	38
2510	1.02	.62	.63	333	.39	.24	.26	23	25
2500	1.03	.66	.73	409	.48	.25	.23	24	22
2490	1.05	.67	.85	326	.57	.28	.31	26	29
2480	.63	.71	.59	324	.42	.17	.20	26	31
2470	.92	.61	.80	410	.49	.31	.30	33	32
2460	1.04	.61	.87	361	.53	.34	.24	32	23
2450	.85	.64	.69	381	.44	.25	.72	29	84
2440	.83	.61	.72	381	.44	.28	.67	33	80
2430	.91	.51	.80	440	.41	.39	.43	42	47
2420	.77	.50	.76	435	.38	.38	.39	49	50
2410	.84	.59	.83	349	.49	.34	.23	40	27

2400	.69	.68	.65	333	.44	.21	.18	30	26
2390	.97	.60	.96	408	.58	.38	.43	39	44
2380	.85	.54	.92	436	.50	.42	.49	49	57
2370	.85	.66	.85	329	.56	.29	.41	34	48
2360	.91	.62	.84	419	.52	.32	.26	35	28
2350	.01	0.00	.01	0	0.00	.01	.01	100	100
2350	.70	.68	.59	379	.40	.19	.23	27	32
2340	.73	.53	.74	423	.39	.35	.59	47	80
2330	.86	.67	.72	375	.48	.24	.29	27	33
2320	.98	.64	.91	419	.58	.33	.49	33	50
2310	.99	.64	1.00	362	.64	.36	.21	36	21
2300	.55	.57	1.00	337	.57	.43	.38	78	69
2290	1.06	.50	1.44	351	.72	.72	.42	67	39
2280	.98	.60	1.15	422	.69	.46	.30	46	30
2270	.93	.63	.99	404	.62	.37	.27	39	29
2260	.12	.59	1.40	334	.83	.57	.39	475	325
2250	.87	.55	1.68	332	.92	.76	.47	87	54
2240	1.20	.53	1.84	336	.98	.86	.67	71	55
2230	.70	.62	1.13	339	.70	.43	.35	61	50
2220	.97	.60	1.23	336	.74	.49	.36	50	37
2210	.94	.59	1.38	336	.82	.56	.37	59	39
2200	1.07	.69	1.17	331	.81	.36	.27	33	25
2190	.78	0.00	.01	0	0.00	.01	.13	1	16
2180	.94	.68	.88	368	.60	.28	.29	29	30
2170	.86	.65	.68	354	.44	.24	.55	27	63
2160	1.04	.69	1.05	353	.72	.33	.28	31	26
2150	.96	.65	.94	335	.61	.33	.35	34	36
2140	.94	.65	1.10	381	.72	.38	.28	40	29
2130	1.08	.63	1.52	328	.95	.57	.38	52	35
2120	1.32	.59	1.53	430	.90	.63	.34	47	25
2110	.97	0.00	.01	0	0.00	.01	.34	1	35
2100	1.10	0.00	.01	0	0.00	.01	.27	0	24
2090	1.34	0.00	.01	0	0.00	.01	.52	0	38
2080	1.17	0.00	.01	0	0.00	.01	.37	0	31
2070	1.25	0.00	.01	0	0.00	.01	.37	0	29
2060	1.53	0.00	.01	0	0.00	.01	.56	0	36
2050	1.28	0.00	.01	0	0.00	.01	.42	0	32
2040	.99	0.00	.01	0	0.00	.01	.37	1	37
2030	.85	0.00	.01	0	0.00	.01	.31	1	36
2020	.76	0.00	.01	0	0.00	.01	.31	1	40
2010	.78	0.00	.01	0	0.00	.01	.21	1	26
2000	.71	0.00	.01	0	0.00	.01	.25	1	35
1990	1.07	0.00	.01	0	0.00	.01	.28	0	26
1980	.84	0.00	.01	0	0.00	.01	.26	1	30
1970	.94	0.00	.01	0	0.00	.01	.21	1	22
1960	1.07	0.00	.01	0	0.00	.01	.24	0	22
1950	.14	0.00	.01	0	0.00	.01	.21	7	150
1940	1.31	0.00	.01	0	0.00	.01	.21	0	16
1940	1.13	0.00	.01	0	0.00	.01	.21	0	18
1930	1.35	.46	1.12	495	.52	.60	.61	44	45
1920	1.41	.39	1.95	385	.77	1.18	1.47	83	104
1910	1.26	.54	1.10	422	.59	.51	.68	40	53

1900	1.54	.54	1.21	504	.65	.56	1.04	36	67
1880	1.24	.66	1.23	433	.81	.42	1.10	33	88
1870	1.56	.04	.78	439	.03	.75	.48	48	30
1870	1.46	.52	1.14	505	.59	.55	2.19	37	150
1860	1.44	.60	1.20	452	.72	.48	.52	33	36
1860	.15	.11	.57	435	.06	.51	.09	340	60
1850	1.44	.63	1.37	412	.86	.51	.43	35	29
1840	1.21	.65	1.22	499	.79	.43	.79	35	65
1830	.91	.48	.93	493	.45	.48	1.63	52	179
1820	1.10	.56	1.51	504	.85	.66	1.01	60	91
1810	.81	.58	.90	511	.52	.38	.70	46	86
1800	.67	.58	.96	430	.56	.40	.28	59	41
1790	.95	.64	.99	416	.63	.36	.34	37	35
1780	1.16	.68	1.03	491	.70	.33	.31	28	26
1770	.91	.70	.70	468	.49	.21	.21	23	23
1760	1.17	.68	.73	502	.50	.23	.27	19	23
1750	1.09	.64	1.25	480	.80	.45	.23	41	21
1740	.90	.70	.88	503	.62	.26	.23	28	25
1730	1.57	.69	1.43	481	.99	.44	.21	28	13
1720	1.80	.67	1.72	500	1.16	.56	.28	31	15
1710	1.86	.69	1.98	479	1.36	.62	.30	33	16
1700	1.50	.70	2.25	418	1.58	.67	.44	44	29
1690	1.63	.65	2.45	479	1.60	.85	.35	52	21
1680	1.89	.72	1.98	480	1.43	.55	.27	29	14
1670	2.01	.71	2.30	474	1.63	.67	.25	33	12
1660	1.78	.70	1.83	471	1.28	.55	.41	30	23
1650	1.77	.71	1.98	468	1.40	.58	.46	32	25
1640	1.63	.72	1.29	480	.93	.36	.31	22	19
1630	1.70	.69	2.00	479	1.38	.62	.36	36	21
1620	2.39	.72	1.47	473	1.06	.41	.33	17	13
1610	1.09	.71	1.95	479	1.38	.57	.30	52	27
1600	1.03	.71	1.57	476	1.11	.46	.28	44	27
1590	2.77	.64	2.64	476	1.70	.94	.37	33	13
1580	2.45	.63	1.88	505	1.19	.69	.33	28	13
1570	1.56	.59	1.98	512	1.16	.82	.26	52	16
1560	1.75	.63	1.90	487	1.19	.71	.27	40	15
1550	1.08	.72	2.28	469	1.65	.63	.32	58	29
1540	1.11	.71	.63	470	.45	.18	.20	16	18
1530	.77	.74	.54	423	.40	.14	.17	18	22
1520	1.03	.65	1.05	445	.68	.37	.22	35	21
1510	.10	.58	1.28	483	.74	.54	.25	540	250
1500	3.50	.40	2.84	482	1.13	1.71	.47	48	13
1490	2.12	.56	1.95	477	1.10	.85	.46	40	21
1480	1.08	.70	.64	469	.45	.19	.17	17	15
1470	.23	.73	.22	443	.16	.06	.17	26	73
1460	.28	.77	.26	337	.20	.06	.18	21	64
1450	.02	.61	.28	335	.17	.11	.17	550	850
1430	.10	.68	1.30	471	.88	.42	.27	420	270
1420	.07	.66	.91	489	.60	.31	.32	442	457
1410	.13	.63	1.67	493	1.05	.62	.30	476	230
1400	.03	.67	.49	389	.33	.16	.34	5331	133
1390	1.72	.65	1.64	496	1.06	.58	.25	33	14

1380	2.19	.66	1.55	527	1.03	.52	.32	23	14
1370	1.04	.69	.86	466	.59	.27	.20	25	19
1360	.67	.73	.37	367	.27	.10	.19	14	28
1350	2.57	.49	2.31	529	1.13	1.18	.35	45	13
1340	4.17	.56	2.81	531	1.58	1.23	.47	29	11
1330	.12	.71	1.50	524	1.06	.44	.34	366	283
1320	4.30	.69	3.25	521	2.24	1.01	.43	23	10
1310	2.39	.63	1.96	517	1.23	.73	.28	30	11
1300	1.06	.79	.84	456	.66	.18	.24	16	22
1003	.71	.07	3.09	439	.22	2.87	1.06	404	149
1002	.27	.33	.09	304	.03	.06	.33	22	122
1002	1.18	.11	5.40	429	.60	4.80	3.00	406	254
880	2.62	.64	3.50	457	2.25	1.25	.44	47	16
870	2.20	.57	3.44	464	1.97	1.47	.40	66	18
860	2.07	.59	3.35	463	1.96	1.39	.40	67	19
850	1.58	.63	2.25	452	1.42	.83	.34	52	21
840	1.73	.61	2.69	456	1.65	1.04	.31	60	17
830	1.63	.58	2.59	461	1.49	1.10	.26	67	15
820	1.51	.63	2.15	455	1.36	.79	.31	52	20
810	1.72	.55	3.73	461	2.07	1.66	.42	96	24
800	1.71	.50	4.27	466	2.12	2.15	.36	125	21
790	3.92	.49	5.60	463	2.73	2.87	.48	73	12
780	2.91	.49	6.00	469	2.92	3.08	.57	105	19
770	1.66	.54	3.45	462	1.86	1.59	.41	95	24
760	1.59	.55	2.97	463	1.64	1.33	.34	83	21
750	2.10	.49	3.18	464	1.55	1.63	.38	77	18
740	1.60	.46	3.06	468	1.40	1.66	.38	103	23
730	1.89	.48	3.10	468	1.50	1.60	.34	84	17
720	2.00	.52	3.14	466	1.62	1.52	.34	76	17
710	1.53	.60	3.05	463	1.82	1.23	.47	80	30
700	1.80	.56	2.89	457	1.62	1.27	.50	70	27
690	2.44	.48	4.60	467	2.21	2.39	.53	97	21
680	2.40	.49	4.27	466	2.11	2.16	.73	90	30
670	.80	.57	1.27	435	.73	.54	.57	67	71
660	.76	.53	1.25	399	.66	.59	.46	77	60
650	.68	.56	1.06	397	.59	.47	.34	69	50
640	.56	.52	.73	408	.38	.35	.29	62	51
630	.54	.55	.75	352	.41	.34	.28	62	51
620	.47	.47	.57	401	.27	.30	.28	63	59
610	.47	.56	.48	354	.27	.21	.24	44	51
600	.57	.50	1.17	359	.58	.59	.30	103	52
590	.52	.53	.72	399	.38	.34	.35	65	67
580	.46	.58	.80	355	.46	.34	.36	73	78
570	.43	.56	.84	356	.47	.37	.32	86	74
560	.37	.60	.55	393	.33	.22	.36	59	97
550	.42	.57	.74	377	.42	.32	.32	76	76
540	.43	.57	.83	366	.47	.36	.36	83	83
530	.51	.56	1.04	401	.58	.46	.27	90	52
520	.42	.58	1.05	358	.61	.44	.39	104	92
520	.39	.67	.43	326	.29	.14	.69	35	176
510	.42	.58	1.02	395	.59	.43	.17	102	40
500	.45	.62	.99	387	.61	.38	.32	84	71

490	.59	.62	1.16	431	.72	.44	.55	74	93
480	.51	.68	.96	437	.65	.31	.25	60	49
470	.51	.63	1.17	399	.74	.43	.36	84	70
460	.43	.65	.93	408	.60	.33	.31	76	72
450	.55	.61	1.11	415	.68	.43	.21	78	38
440	.60	.57	1.11	406	.63	.48	.28	80	46
430	.49	.55	1.06	395	.58	.48	.27	97	55
420	.84	.39	1.50	441	.59	.91	.57	108	67
410	.69	.48	1.45	433	.69	.76	.49	110	71
400	1.04	.36	3.57	430	1.28	2.29	.75	220	72
390	1.00	.44	2.32	436	1.02	1.30	.64	130	64
380	.70	.39	2.04	433	.79	1.25	.65	178	92
370	.52	.67	.33	350	.22	.11	.35	21	67
370	.94	.54	1.75	455	.95	.80	.51	85	54
360	.73	.53	1.28	459	.68	.60	.48	82	65
350	.78	.61	2.08	432	1.26	.82	1.16	105	148
340	.88	.39	2.44	380	.95	1.49	.94	169	106
330	.78	.56	1.33	452	.75	.58	.71	74	91
320	.88	.54	1.67	421	.91	.76	.61	86	69
310	1.36	.48	2.62	445	1.26	1.36	.83	100	61
300	1.37	.54	2.59	446	1.40	1.19	.77	86	56
290	1.44	.53	2.85	445	1.50	1.35	.94	93	65
280	1.30	.58	2.13	411	1.24	.89	.61	68	46
277	1.80	.66	3.07	329	2.03	1.04	.57	57	31
260	.94	.60	2.02	457	1.21	.81	.64	86	68
250	.96	.62	2.00	451	1.23	.77	.57	80	59
240	.86	.62	2.00	446	1.23	.77	.73	89	84
230	1.15	.59	2.37	454	1.39	.98	.75	85	65
220	.67	.55	1.92	445	1.05	.87	1.13	129	168
210	.48	.52	.89	427	.46	.43	.71	89	147
200	.68	.51	1.65	403	.84	.81	1.24	119	182
190	.99	.47	2.09	416	.99	1.10	1.31	111	132
180	1.08	.39	2.14	438	.83	1.31	1.11	121	102
170	1.03	.37	2.04	441	.75	1.29	1.44	125	139
160	1.21	.23	2.05	430	.48	1.57	1.39	129	114
150	1.05	.28	1.82	471	.51	1.31	1.59	124	151
140	.99	.37	1.79	448	.66	1.13	1.82	114	183
130	1.74	.42	4.40	365	1.84	2.56	4.17	147	239
120	.97	.38	1.77	427	.68	1.09	2.41	112	248
110	1.28	.34	3.53	427	1.19	2.34	3.06	182	239
100	.81	.43	1.38	431	.60	.78	1.38	96	170
90	.59	.42	1.21	426	.51	.70	.42	118	71
80	.70	.41	1.50	415	.62	.88	.49	125	70
70	.87	.38	.99	452	.38	.61	1.49	70	171
60	1.48	.03	.87	441	.03	.84	.65	56	43
60	.91	.36	.94	405	.34	.60	3.17	65	348
50	.50	.53	.81	418	.43	.38	1.34	76	268
40	2.95	.18	5.63	426	1.00	4.63	4.83	156	163
30	5.25	.16	12.03	428	1.93	10.10	10.26	192	195

Murphy Mesa BP Whitestone YT N-58

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
20F	1.54	.52	2.38	442	1.23	1.15	1.27	74	82
30F	1.00	.62	2.06	423	1.27	.79	.73	79	73
80	.84	.68	.69	445	.47	.22	.99	26	117
90	1.04	.76	1.65	439	1.26	.39	.91	37	87
100	1.54	.84	3.47	401	2.93	.54	1.03	35	66
120	1.06	.82	3.03	379	2.48	.55	.78	51	73
220	2.54	.71	11.39	427	8.14	3.25	1.34	127	52
260	2.23	.61	9.04	428	5.54	3.50	1.87	156	83
280	1.68	.73	8.74	422	6.37	2.37	1.48	141	88
300	2.53	.56	10.75	439	6.06	4.69	1.38	185	54
340	2.51	.71	7.25	440	5.12	2.13	2.03	84	80
360	1.45	.76	5.47	425	4.17	1.30	2.64	89	182
400	.01	0.00	.01	234	0.00	.01	.11	1001	100
420	.97	.67	4.07	431	2.72	1.35	1.37	139	141
440	1.65	.41	3.51	434	1.43	2.08	1.29	126	78
460	1.54	.34	2.22	437	.76	1.46	1.71	94	111
480	1.55	.40	3.00	435	1.19	1.81	1.49	116	96
500	1.05	.30	1.17	443	.35	.82	1.70	78	161
520	1.23	.32	1.59	443	.51	1.08	1.30	87	105
540	1.75	.42	2.90	444	1.21	1.69	1.02	96	58
560	1.72	.42	2.83	441	1.19	1.64	1.19	95	69
580	.83	.37	1.22	448	.45	.77	.93	92	112
600	1.12	.47	2.00	441	.94	1.06	1.86	94	166
620	1.22	.39	2.42	442	.94	1.48	1.57	121	128
640	1.24	.50	3.25	424	1.62	1.63	1.86	131	150
660	1.37	.45	2.61	444	1.17	1.44	1.87	105	136
680	.92	.36	1.48	442	.54	.94	1.54	102	167
700	1.32	.34	2.24	438	.76	1.48	1.46	112	110
720	1.40	.35	2.39	447	.84	1.55	1.38	110	98
740	1.50	.27	1.91	445	.52	1.39	1.62	92	108
760	1.03	.37	.99	441	.37	.62	2.66	60	258
780	1.17	.36	1.70	441	.61	1.09	2.22	93	189
820	2.66	.26	4.50	439	1.16	3.34	1.55	125	58
840	2.07	.25	2.60	440	.65	1.95	1.90	94	91
860	2.14	.21	2.44	442	.52	1.92	1.94	89	90
880	1.81	.25	2.80	440	.71	2.09	2.24	115	123
900	1.73	.32	3.12	436	1.01	2.11	2.71	121	156
920	1.57	.29	2.28	441	.66	1.62	1.92	103	122
940	3.45	.32	5.90	438	1.89	4.01	1.64	116	47
960	1.42	.39	5.68	442	2.19	3.49	6.95	245	489
980	1.13	.40	5.10	433	2.04	3.06	7.93	270	701
1000	1.30	.51	6.84	439	3.51	3.33	6.99	256	537
1020	8.68	.25	11.21	438	2.82	8.39	8.84	96	101
1040	3.79	.61	13.78	435	8.42	5.36	7.51	141	198
1060	3.21	.39	8.49	443	3.29	5.20	6.42	161	200
1080	1.89	.42	4.96	445	2.08	2.88	6.04	152	319
1100	5.60	.11	14.58	442	1.62	12.96	5.07	231	90
1120	10.35	.11	17.52	443	2.01	15.51	4.77	149	46
1140	8.28	.12	12.89	439	1.60	11.29	3.76	136	45

1160	3.36	.16	4.20	444	.69	3.51	1.86	104	55
1180	2.57	.18	2.88	446	.51	2.37	1.03	92	40
1200	2.30	.17	3.14	441	.54	2.60	.95	113	41
1220	.44	.12	5.41	443	.66	4.75	.80	1079	181
1240	.32	.14	3.87	440	.55	3.32	1.67	1037	521
1260	.26	.16	3.14	442	.49	2.65	.93	1019	357
1280	1.62	.18	2.33	448	.42	1.91	.85	117	52
1300	4.15	.07	5.71	444	.41	5.30	1.14	127	27
1320	5.21	.08	6.87	442	.57	6.30	1.44	120	27
1340	3.29	.11	4.19	442	.44	3.75	1.28	113	38
1360	2.76	.12	3.55	442	.42	3.13	1.14	113	41
1380	4.55	.07	6.66	443	.45	6.21	1.10	136	24
1400	2.10	.15	2.94	441	.44	2.50	.97	119	46
1420	3.29	.10	4.57	445	.46	4.11	1.00	124	30
1440	1.95	.15	2.72	442	.41	2.31	.59	118	30
1460	2.37	.12	3.20	444	.39	2.81	.83	118	35
1480	2.81	.12	3.77	445	.46	3.31	.96	117	34
1500	3.13	.14	4.31	444	.61	3.70	1.04	118	33
1520	2.81	.13	3.83	444	.49	3.34	.77	118	27
1540	2.15	.19	3.66	446	.70	2.96	.85	137	39
1560	2.93	.13	4.58	446	.58	4.00	1.04	136	35
1580	1.75	.18	2.78	448	.49	2.29	.43	130	24
1600	1.81	.17	2.83	441	.48	2.35	.66	129	36
1620	3.35	.11	5.13	443	.57	4.56	.79	136	23
1640	2.67	.14	4.09	438	.56	3.53	.68	132	25
1660	5.31	.07	7.90	447	.56	7.34	1.08	138	20
1680	6.17	.07	13.74	447	1.00	12.74	1.87	206	30
1700	2.12	.20	3.01	444	.60	2.41	1.63	113	76
1720	2.28	.16	2.82	441	.44	2.38	2.22	104	97
1740	2.05	.17	2.44	445	.42	2.02	2.38	98	116
1760	1.49	.19	2.25	444	.43	1.82	1.83	122	122
1780	3.74	.13	7.40	445	.99	6.41	1.09	171	29
1800	2.73	.13	4.27	447	.56	3.71	.69	135	25
1820	1.93	.18	2.75	445	.50	2.25	.73	116	37
1840	8.73	.05	20.51	436	1.12	19.39	1.76	222	20
1860	8.03	.05	17.87	438	.88	16.99	1.62	211	20
1880	4.81	.10	8.83	441	.91	7.92	1.37	164	28
1900	3.93	.09	6.48	441	.61	5.87	1.08	149	27
1920	4.67	.08	12.14	440	1.01	11.13	1.29	238	27
1940	6.61	.07	14.33	437	.98	13.35	1.78	201	26
1960	5.62	.08	10.36	438	.83	9.53	1.35	169	24
1980	1.64	.32	3.15	444	1.00	2.15	2.66	131	162
2000	3.57	.19	6.42	428	1.23	5.19	2.53	145	70
2020	2.08	.34	5.08	441	1.74	3.34	3.42	160	164
2040	2.01	.24	3.57	442	.86	2.71	2.07	134	102
2060	1.53	.27	2.70	444	.73	1.97	1.48	128	96
2080	1.69	.27	3.32	442	.90	2.42	1.20	143	71
2110	3.86	.16	6.80	442	1.06	5.74	1.12	148	29
2120	2.49	.10	3.56	442	.37	3.19	.78	128	31
2140	2.12	.14	2.94	442	.41	2.53	1.12	119	52
2160	2.02	.12	2.86	445	.35	2.51	1.03	124	50
2180	2.19	.14	3.45	443	.49	2.96	.71	135	32

2200	1.97	.15	3.28	441	.49	2.79	.97	141	49
2220	2.42	.14	3.68	442	.53	3.15	.72	130	29
2240	2.11	.14	3.36	444	.46	2.90	1.01	137	47
2260	2.10	.15	3.26	445	.50	2.76	.89	131	42
2280	2.45	.15	3.72	445	.54	3.18	1.15	129	46
2300	5.47	.08	12.69	434	1.03	11.66	1.09	213	19
2320	4.23	.09	7.40	438	.63	6.77	1.00	160	23
2340	4.75	.08	12.38	438	1.02	11.36	.94	239	19
2360	3.52	.09	8.14	441	.73	7.41	.64	210	18
2380	1.95	.15	3.53	444	.53	3.00	.76	153	38
2400	2.22	.15	4.39	443	.68	3.71	.64	167	28
2420	2.52	.14	4.87	441	.68	4.19	1.17	166	46
2440	1.91	.12	3.89	446	.47	3.42	.42	179	21
2460	1.86	.12	3.54	444	.43	3.11	.49	167	26
2480	1.67	.12	3.93	442	.48	3.45	.49	206	29
2500	2.34	.14	4.17	444	.57	3.60	.93	153	39
2520	4.00	.11	8.20	439	.91	7.29	.80	182	20
2540	1.64	.19	3.70	441	.70	3.00	.60	182	36
2560	1.71	.21	4.17	447	.86	3.31	.30	193	17
2580	1.26	.24	2.46	442	.59	1.87	.48	148	38
2600	3.72	.12	7.75	445	.90	6.85	.69	184	18
2620	3.79	.11	7.88	441	.83	7.05	.67	186	17
2640	6.85	.15	7.71	436	1.14	6.57	.57	95	8
2660	4.27	.09	10.78	437	.98	9.80	.87	229	20
2680	1.47	.15	2.94	445	.45	2.49	.50	169	34
2700	.92	.21	2.04	446	.42	1.62	.48	176	52
2720	1.32	.22	3.23	441	.72	2.51	.61	190	46
2740	1.28	.20	2.75	443	.54	2.21	.83	172	64
2760	1.24	.22	2.55	441	.55	2.00	.55	161	44
2780	1.69	.18	3.72	443	.67	3.05	.60	180	35
2800	1.87	.17	3.48	444	.59	2.89	.70	154	37
2820	1.56	.23	3.97	443	.91	3.06	.55	196	35
2840	1.97	.15	4.88	441	.71	4.17	.67	211	34
2860	1.30	.15	2.51	447	.38	2.13	.59	163	45
2880	1.44	.15	2.66	446	.40	2.26	.39	156	27
2900	1.33	.19	2.75	444	.52	2.23	.36	167	27
2920	1.21	.21	2.79	442	.58	2.21	.29	182	23
2940	1.22	.22	3.04	442	.66	2.38	.45	195	36
2960	1.28	.20	2.87	447	.56	2.31	.49	180	38
2980	1.26	.21	2.90	447	.61	2.29	.37	181	29
3000	1.46	.21	3.36	446	.70	2.66	.54	182	36
3020	1.54	.20	3.24	445	.64	2.60	.60	168	38
3040	1.90	.18	3.75	445	.67	3.08	.60	162	31
3060	1.92	.16	3.66	447	.57	3.09	.70	160	36
3080	2.07	.18	4.38	448	.77	3.61	.76	174	36
3100	1.76	.16	4.07	448	.64	3.43	.51	194	28
3120	1.84	.15	3.40	443	.51	2.89	.54	157	29
3140	1.92	.15	3.82	447	.59	3.23	.35	168	18
3160	1.95	.16	3.97	446	.62	3.35	.32	171	16
3180	2.03	.16	3.85	445	.62	3.23	.43	159	21
3200	1.94	.15	4.40	447	.64	3.76	.63	193	32
3220	1.99	.16	3.57	447	.58	2.99	.40	150	20

3240	2.05	.17	3.76	450	.63	3.13	.70	152	34
3260	2.11	.17	4.17	451	.70	3.47	.75	164	35
3280	2.16	.15	3.96	449	.59	3.37	.76	156	35
3300	2.10	.15	3.74	448	.56	3.18	.69	151	32
3320	2.18	.15	3.86	449	.56	3.30	.69	151	31
3340	1.85	.16	3.38	449	.54	2.84	.89	153	48
3360	1.94	.17	3.47	451	.58	2.89	.36	148	18
3380	1.96	.16	3.70	448	.61	3.09	.54	157	27
3400	2.07	.13	3.69	448	.49	3.20	.51	154	24
3420	2.02	.16	3.59	446	.56	3.03	.58	150	28
3440	1.96	.18	3.64	446	.65	2.99	.64	152	32
3460	2.02	.22	4.04	448	.87	3.17	.57	156	28
3480	2.15	.19	4.26	449	.82	3.44	.45	160	20
3500	1.85	.19	3.74	447	.70	3.04	.45	164	24
3520	1.65	.25	3.28	448	.81	2.47	.31	149	18
3540	1.73	.24	3.51	447	.85	2.66	.37	153	21
3560	1.81	.22	3.30	450	.71	2.59	.49	143	27
3580	1.83	.20	3.45	447	.70	2.75	.40	150	21
3600	2.07	.21	3.46	448	.71	2.75	.25	132	12
3620	2.12	.20	3.97	448	.78	3.19	.31	150	14
3640	2.17	.19	4.09	448	.77	3.32	.39	152	17
3660	2.19	.20	4.32	449	.86	3.46	.34	157	15
3680	2.01	.21	4.09	448	.87	3.22	.45	160	22
3700	1.97	.20	3.34	449	.68	2.66	.53	135	26
3720	2.23	.20	4.06	450	.83	3.23	.49	144	21
3740	2.02	.19	3.86	449	.75	3.11	.40	153	19
3760	2.20	.21	4.23	449	.87	3.36	.22	152	10
3780	2.13	.20	4.09	451	.82	3.27	.45	153	21
3800	1.95	.22	3.70	447	.80	2.90	.43	148	22
3820	1.82	.21	3.19	451	.67	2.52	.56	138	30
3840	1.85	.21	3.42	452	.73	2.69	.53	145	28
3860	1.91	.20	3.26	448	.64	2.62	.40	137	20
3880	1.84	.24	3.56	451	.85	2.71	.46	147	25
3900	1.90	.21	3.42	451	.72	2.70	.42	142	22
3920	1.79	.21	3.00	449	.63	2.37	.73	132	40
3940	1.85	.20	3.05	449	.61	2.44	.51	131	27
3960	1.94	.18	3.16	449	.57	2.59	.45	133	23
3980	1.64	.21	3.30	452	.69	2.61	.28	159	17
4000	1.94	.21	3.67	447	.77	2.90	.31	149	15
4020	1.74	.20	3.22	453	.63	2.59	.49	148	28
4040	1.89	.18	3.40	447	.62	2.78	.44	147	23
4060	1.78	.21	3.15	452	.65	2.50	.40	140	22
4080	1.67	.18	3.03	448	.54	2.49	.60	149	35
4100	1.68	.24	3.26	450	.78	2.48	.39	147	23
4120	1.76	.21	3.35	452	.69	2.66	.36	151	20
4140	1.87	.22	4.23	450	.93	3.30	.40	176	21
4160	1.62	.25	3.41	451	.84	2.57	.38	158	23
4180	1.63	.23	3.27	450	.75	2.52	.17	154	10
4200	1.93	.22	3.16	447	.71	2.45	.24	126	12
4220	1.50	.23	3.08	452	.70	2.38	.13	158	8
4240	1.83	.23	3.07	454	.70	2.37	.71	129	38
4260	1.50	.24	3.17	450	.76	2.41	.28	160	18

4280	1.71	.23	3.09	450	.72	2.37	.18	138	10
4300	1.66	.25	3.12	451	.79	2.33	.20	140	12
4320	1.78	.25	3.32	450	.84	2.48	.15	139	8
4340	1.61	.24	2.97	452	.70	2.27	.19	140	11
4360	1.68	.29	3.48	449	1.00	2.48	.13	147	7
4380	1.75	.24	3.86	453	.94	2.92	.06	166	3
4400	1.80	.24	3.33	447	.79	2.54	.12	141	6
4430	1.55	.24	3.33	452	.80	2.53	.09	163	5
4440	1.44	.26	3.45	453	.89	2.56	.17	177	11
4460	1.18	.30	2.27	453	.67	1.60	.06	135	5
4480	1.19	.27	2.06	455	.55	1.51	.10	126	8
4500	1.30	.25	2.49	452	.63	1.86	.24	143	18
4520	1.21	.25	2.01	447	.50	1.51	.19	124	15
4540	1.40	.24	2.27	454	.54	1.73	.35	123	25
4560	1.11	.28	1.71	449	.48	1.23	.17	110	15
4590	1.35	.26	2.16	450	.57	1.59	.30	117	22
4600	1.22	.25	1.94	453	.48	1.46	.26	119	21
4620	1.23	.25	2.01	452	.51	1.50	.19	121	15
4640	1.20	.26	2.04	453	.53	1.51	.51	125	42
4660	1.13	.28	2.07	452	.58	1.49	.25	131	22
4680	1.31	.26	2.38	453	.63	1.75	.34	133	25
4700	1.22	.27	2.11	455	.56	1.55	.23	127	18
4720	1.30	.27	2.86	452	.76	2.10	.07	161	5
4750	1.35	.47	3.73	447	1.75	1.98	.68	146	50
4760	1.24	.28	2.26	450	.64	1.62	.41	130	33
4780	1.39	.26	2.70	453	.69	2.01	.29	144	20
4800	1.57	.26	2.51	453	.65	1.86	.16	118	10
4820	1.28	.27	2.39	451	.64	1.75	.01	136	0
4840	1.40	.25	2.73	450	.68	2.05	.08	146	5
4860	1.52	.28	3.51	454	.99	2.52	.07	165	4
4880	1.39	.23	3.05	455	.70	2.35	.13	169	9
4900	1.61	.23	3.49	454	.81	2.68	.19	166	11
4920	1.47	.26	2.83	455	.73	2.10	.20	142	13
4940	1.37	.25	2.79	457	.69	2.10	.13	153	9
4960	1.37	.24	2.51	454	.60	1.91	.09	139	6
4980	1.20	.31	2.36	453	.74	1.62	.12	135	10
5000	1.02	.28	1.67	456	.46	1.21	.07	118	6
5020	1.01	.31	1.97	457	.62	1.35	.09	133	8
5040	1.22	.29	2.16	453	.63	1.53	.07	125	5
5060	1.13	.28	2.24	456	.63	1.61	.05	142	4
5080	1.16	.27	2.00	455	.54	1.46	.16	125	13
5100	1.17	.26	1.95	456	.50	1.45	.23	123	19
5120	1.29	.26	2.45	454	.64	1.81	.09	140	6
5140	.98	.28	1.52	457	.42	1.10	.06	112	6
5160	.96	.27	1.46	458	.40	1.06	.08	110	8
5180	1.02	.27	1.58	456	.42	1.16	.01	113	0
5200	1.06	.29	1.80	455	.53	1.27	.06	119	5
5240	1.01	.31	1.61	456	.50	1.11	.10	109	9
5260	.91	.30	1.62	456	.48	1.14	.08	125	8
5280	.96	.31	1.31	460	.41	.90	.23	93	23
5300	1.06	.29	1.53	453	.45	1.08	.01	101	0
5320	.98	.31	1.43	459	.44	.99	.07	101	7

5340	1.10	.32	1.57	458	.51	1.06	.20	96	18
5360	1.10	.29	1.75	459	.51	1.24	.06	112	5
5380	1.13	.30	1.75	452	.52	1.23	.08	108	7
5400	.98	.33	1.47	458	.48	.99	.04	101	4
5420	1.03	.33	1.39	460	.46	.93	.13	90	12
5440	1.09	.30	1.59	459	.47	1.12	.06	102	5
5460	.90	.32	1.39	460	.44	.95	.10	105	11
5480	1.04	.24	1.48	456	.36	1.12	.02	107	1
5500	.99	.30	1.43	461	.43	1.00	.01	101	1
5520	1.02	.29	1.32	455	.38	.94	.09	92	8
5540	.96	.33	1.59	459	.53	1.06	.09	110	9
5560	1.11	.35	1.91	455	.67	1.24	.13	111	11
5580	1.08	.34	1.62	459	.55	1.07	.01	99	0
5600	1.60	.25	2.48	452	.61	1.87	.09	116	5
5620	1.35	.22	2.30	453	.51	1.79	.16	132	11
5640	1.33	.23	2.18	452	.50	1.68	.05	126	3
5660	1.18	.25	1.84	454	.46	1.38	.04	116	3
5680	1.18	.28	1.80	457	.51	1.29	.15	109	12
5700	1.13	.31	1.77	455	.55	1.22	.09	107	7
5720	1.15	.25	1.99	455	.50	1.49	.05	129	4
5740	1.26	.25	2.31	450	.57	1.74	.09	138	7
5760	1.43	.20	2.36	453	.48	1.88	.07	131	4
5780	1.36	.27	2.41	454	.66	1.75	.05	128	3
5800	2.26	.28	4.28	450	1.18	3.10	.59	137	26
5820	1.50	.29	2.42	458	.71	1.71	.31	114	20
5840	1.95	.31	3.34	463	1.05	2.29	.45	117	23
5860	1.88	.30	3.24	465	.96	2.28	.37	121	19
5880	1.29	.35	1.80	464	.63	1.17	.43	90	33
5900	1.49	.27	2.75	462	.73	2.02	.28	135	18
5920	1.25	.26	2.04	455	.53	1.51	.27	120	21
5940	.51	.42	1.11	460	.47	.64	.26	125	50
5960	.85	.33	1.52	453	.50	1.02	.30	120	35
5980	.77	.33	1.76	454	.58	1.18	.30	153	38
6000	1.35	.45	4.07	446	1.83	2.24	.96	165	71
6020	.81	.38	1.75	459	.67	1.08	.32	133	39
6040	.91	.34	1.57	454	.53	1.04	.29	114	31
6060	1.29	.31	2.90	453	.90	2.00	.34	155	26
6080	1.16	.26	2.50	453	.66	1.84	.27	158	23
6100	.62	.41	1.60	458	.66	.94	.44	151	70
6120	.95	.30	2.07	453	.62	1.45	.27	152	28
6140	.91	.31	1.90	455	.59	1.31	.36	143	39
6160	.54	.36	1.09	453	.39	.70	.31	129	57
6180	.37	.37	.73	453	.27	.46	.27	124	72
6200	.52	.33	1.00	455	.33	.67	.24	128	46
6220	.45	.38	.78	457	.30	.48	.24	106	53
6240	.41	.38	.76	448	.29	.47	.23	114	56
6260	.47	.34	.97	446	.33	.64	.19	136	40
6280	.38	.36	.75	451	.27	.48	.20	126	52
6300	.57	.35	1.34	451	.47	.87	.19	152	33
6320	.29	.47	.78	454	.37	.41	.27	141	93
6340	.31	.33	.58	454	.19	.39	.18	125	58
6360	.32	.33	.58	449	.19	.39	.18	121	56

6380	.50	.39	1.10	450	.43	.67	.15	134	30
6400	.47	.39	1.04	449	.41	.63	.14	134	29
6420	.30	.54	.80	445	.43	.37	.17	123	56
6440	.24	.47	.57	446	.27	.30	.13	125	54
6460	1.03	.28	2.24	451	.62	1.62	.13	157	12
6480	.92	.33	1.83	451	.60	1.23	.21	133	22
6500	.54	.31	.97	451	.30	.67	.19	124	35
6520	.47	.39	.90	447	.35	.55	.19	117	40
6540	.66	.47	1.63	447	.76	.87	.20	131	30
6560	.75	.41	1.47	455	.60	.87	.27	116	36
6580	.46	.38	.77	450	.29	.48	.18	104	39
6600	.54	.38	1.13	447	.43	.70	.24	129	44
6620	.34	.44	.73	450	.32	.41	.16	120	47
6640	.84	.33	1.56	448	.52	1.04	.27	123	32
6660	.28	.43	.44	453	.19	.25	.19	89	67
6680	.32	.42	.53	451	.22	.31	.15	96	46
6700	.20	.48	.46	464	.22	.24	.14	120	70
6720	.20	.53	.47	450	.25	.22	.15	110	75
6740	.31	.49	.65	449	.32	.33	.10	106	32
6760	.23	.51	.51	445	.26	.25	.13	108	56
6780	.21	.55	.60	440	.33	.27	.27	128	128
6800	.17	.55	.38	450	.21	.17	.22	100	129
6820	.24	.49	.45	449	.22	.23	.10	95	41
6840	.71	.37	1.48	450	.55	.93	.25	130	35
6860	.26	.49	.47	452	.23	.24	.09	92	34
6880	.27	.49	.53	446	.26	.27	.13	100	48
6900	.30	.46	.67	450	.31	.36	.16	120	53
6920	.30	.47	.70	446	.33	.37	.11	123	36
6940	.36	.49	.71	448	.35	.36	.16	100	44
6960	.72	.32	1.50	450	.48	1.02	.28	141	38
6980	.92	.36	1.72	450	.62	1.10	.19	119	20

Socony Mobil WM Birch B-34

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
5400F	3.99	.18	11.91	447	2.14	9.77	.79	244	19
5390F	2.80	0.00	.01	0	0.00	.01	1.04	0	37
5380	1.94	0.00	.01	0	0.00	.01	1.00	0	51
5370	3.79	.16	9.70	442	1.53	8.17	1.29	215	34
5360	3.21	.21	8.85	443	1.82	7.03	1.45	219	45
5350	2.41	0.00	.01	0	0.00	.01	1.08	0	44
5340	2.96	.17	7.96	445	1.32	6.64	1.25	224	42
5330	2.37	.20	5.78	442	1.17	4.61	1.22	194	51
5320	2.71	.26	7.17	444	1.83	5.34	1.41	197	52
5310	1.62	.17	4.31	444	.75	3.56	1.18	219	72
5300	.96	.28	2.10	442	.58	1.52	.98	158	102
5290	1.62	.20	3.60	446	.71	2.89	1.18	178	72
5280	1.08	0.00	.01	0	0.00	.01	1.22	0	112
5270	1.10	.25	2.15	443	.53	1.62	.99	147	90
5260	1.08	.22	2.32	446	.50	1.82	.66	168	61
5250	1.92	.16	4.71	448	.77	3.94	.87	205	45
5240	1.63	.20	3.87	443	.79	3.08	.98	188	60
5230	1.59	.22	4.33	447	.97	3.36	.97	211	61
5220	1.42	.21	3.41	445	.73	2.68	.87	188	61
5210	1.33	.18	3.02	445	.55	2.47	.83	185	62
5200	1.34	.18	2.95	445	.54	2.41	.48	179	35
5190	1.50	.26	3.69	445	.97	2.72	1.11	181	73
5180	.96	0.00	.01	0	0.00	.01	.94	1	97
5170	.80	.19	2.00	439	.37	1.63	.98	203	122
5160	.77	.20	1.79	435	.35	1.44	.84	187	109
5150	.87	.26	1.91	439	.50	1.41	1.01	162	116
5140	1.08	.29	2.34	444	.67	1.67	.88	154	81
5130	1.32	.21	2.70	442	.56	2.14	.95	162	71
5120	2.89	.19	7.64	448	1.46	6.18	1.20	213	41
5110	3.06	.18	7.74	446	1.42	6.32	.76	206	24
5100	3.44	.19	8.77	446	1.64	7.13	1.23	207	35
5090	1.35	.19	2.91	445	.54	2.37	1.00	175	74
5080	1.30	.15	2.62	440	.40	2.22	.77	170	59
5070	1.11	.21	2.28	441	.47	1.81	.78	163	70
5060	1.00	.21	2.28	438	.48	1.80	.82	180	82
5050	1.54	.18	3.42	444	.62	2.80	.77	181	50
5040	.60	.16	1.36	436	.22	1.14	.73	190	121
5030	.71	.18	1.51	437	.27	1.24	.80	174	112
5020	2.10	.24	4.26	445	1.03	3.23	.91	153	43
5010	2.84	.24	6.51	447	1.58	4.93	1.22	173	42
5000	2.08	.23	4.59	443	1.05	3.54	1.15	170	55
4990	1.77	.19	4.05	445	.78	3.27	.98	184	55
4980	1.40	.18	2.77	441	.50	2.27	.99	162	70
4970	3.17	.18	7.44	445	1.32	6.12	1.05	193	33
4960	2.53	.25	6.41	445	1.61	4.80	.96	189	37
4950	1.42	0.00	.01	0	0.00	.01	.82	0	57
4940	.58	.15	.95	437	.14	.81	.43	139	74
4930	.48	.12	.80	437	.10	.70	.54	145	112
4920	.44	.15	.67	436	.10	.57	.39	129	88

4910	.57	.16	.92	436	.15	.77	.47	135	82
4900	.51	.12	.66	432	.08	.58	.30	113	58
4890	.75	.14	1.34	436	.19	1.15	.44	153	58
4880	1.36	.19	3.04	439	.57	2.47	.66	181	48
4870	1.80	.21	3.97	445	.82	3.15	1.01	175	56
4860	2.98	.21	8.26	445	1.74	6.52	.98	218	32
4850	3.88	.20	9.39	444	1.92	7.47	1.23	192	31
4840	1.33	.22	2.54	439	.55	1.99	.91	149	68
4830	1.12	.15	2.15	437	.32	1.83	.72	163	64
4820	1.27	.19	2.48	436	.47	2.01	.71	158	55
4810	1.82	.22	3.87	445	.86	3.01	.66	165	36
4800	3.88	.22	9.55	446	2.13	7.42	1.09	191	28
4790	6.22	.20	16.44	443	3.22	13.22	1.40	212	22
4780	4.62	.20	12.07	446	2.43	9.64	1.26	208	27
4770	3.23	.26	8.18	446	2.10	6.08	1.14	188	35
4760	2.24	.25	5.34	444	1.36	3.98	1.06	177	47
4750	5.07	.17	14.59	447	2.49	12.10	1.32	238	26
4740	3.81	.19	9.54	448	1.83	7.71	1.25	202	32
4730	2.57	.20	6.83	445	1.39	5.44	1.07	211	41
4720	2.02	.21	5.57	445	1.19	4.38	1.10	216	54
4710	1.12	.28	2.80	442	.79	2.01	.97	179	86
4700	.81	.28	2.16	439	.61	1.55	.79	191	97
4700	.01	.27	2.27	437	.62	1.65	.86	165	008600
4690	.95	.17	2.12	440	.35	1.77	.56	186	58
4680	.82	.33	1.92	442	.63	1.29	.75	157	91
4670	.56	.26	1.30	443	.34	.96	.60	171	107
4660	.55	.16	1.22	441	.20	1.02	.48	185	87
4650	.64	.32	1.76	441	.57	1.19	.61	185	95
4640	.72	.20	1.58	446	.31	1.27	.46	176	63
4620	.35	.22	.50	437	.11	.39	.34	111	97
4610	.50	.22	1.02	436	.22	.80	.50	160	100
4600	.38	.17	.60	439	.10	.50	.31	131	81
4590	.53	.24	1.27	436	.31	.96	.53	181	100
4580	.50	.22	.91	437	.20	.71	.56	142	111
4570	.45	.21	.80	435	.17	.63	.63	140	140
4560	.25	.27	.44	435	.12	.32	.66	128	264
4550	.36	.21	.84	433	.18	.66	.69	183	191
4540	.41	.27	.77	438	.21	.56	.57	136	139
4530	.61	.28	1.11	434	.31	.80	.58	131	95
4520	1.12	.22	2.36	436	.52	1.84	1.90	164	169
4510	.80	.14	1.31	434	.18	1.13	.54	141	67
4500	.75	.22	1.47	436	.33	1.14	.62	152	82
4490	.63	.26	1.44	439	.38	1.06	.75	168	119
4480	.49	.36	1.30	440	.47	.83	.75	169	153
4470	.38	.37	1.21	440	.45	.76	.71	200	186
4450	1.44	.26	3.76	447	.97	2.79	.98	193	68
4440	.55	.21	1.24	437	.26	.98	.60	178	109
4430	.57	.28	1.49	439	.42	1.07	.72	187	126
4420	.48	.35	1.08	446	.38	.70	.55	145	114
4410	.72	.25	1.64	439	.41	1.23	.71	170	98
4400	.57	.36	1.28	445	.46	.82	.72	143	126
4390	.55	.30	1.41	441	.42	.99	.76	180	138

4380	.58	.27	1.60	439	.43	1.17	.76	201	131
4370	.58	.30	1.64	436	.49	1.15	.71	198	122
4360	.59	.23	1.05	439	.24	.81	.59	137	100
4350	.62	.24	1.40	438	.34	1.06	.61	170	98
4340	.55	.27	1.13	437	.30	.83	.83	150	150
4330	.59	.22	1.39	439	.31	1.08	.69	183	116
4320	.66	.16	1.34	436	.22	1.12	.62	169	93
4310	.73	.31	1.99	440	.61	1.38	.81	189	110
4300	.57	.23	1.22	437	.28	.94	.70	164	122
4290	.56	.17	1.28	434	.22	1.06	.67	189	119
4280	.91	.24	2.33	443	.57	1.76	.79	193	86
4270	1.95	.24	6.22	446	1.47	4.75	.71	243	36
4260	1.56	.22	4.26	442	.94	3.32	.85	212	54
4250	1.13	.23	3.32	443	.77	2.55	.84	225	74
4240	.43	.41	1.18	436	.48	.70	.52	162	120
4230	.75	.29	1.78	440	.51	1.27	.83	169	110
4220	1.54	.26	4.19	438	1.08	3.11	.78	201	50
4210	1.10	.26	3.28	446	.84	2.44	.91	221	82
4200	.55	.25	1.20	442	.30	.90	.76	163	138
4190	.61	.31	1.53	436	.47	1.06	.89	173	145
4180	.58	.31	1.53	435	.48	1.05	.92	181	158
4170	1.32	.28	3.61	443	1.01	2.60	.88	196	66
4160	1.57	.24	4.01	445	.95	3.06	1.01	194	64
4150	2.10	.22	6.45	445	1.41	5.04	.91	240	43
4140	1.98	.21	6.13	444	1.28	4.85	.83	244	41
4130	1.02	.19	2.32	443	.43	1.89	.83	185	81
4120	.62	.26	1.44	437	.37	1.07	.74	172	119
4110	.41	.25	.92	435	.23	.69	.54	168	131
4100	.71	.19	1.70	441	.33	1.37	.72	192	101
4090	1.13	.24	2.92	440	.69	2.23	.84	197	74
4080	1.15	.20	3.56	442	.70	2.86	.89	248	77
4070	.73	.18	1.88	441	.33	1.55	.81	212	110
4060	.77	.16	2.01	438	.32	1.69	.73	219	94
4050	.54	.29	1.53	434	.44	1.09	.86	201	159
4040	.49	.21	1.08	438	.23	.85	.69	173	140
4030	.47	.32	1.18	435	.38	.80	.84	170	178
4020	.53	.23	1.28	438	.29	.99	.84	186	158
4010	.53	.26	1.26	435	.33	.93	.66	175	124
4000	.49	.18	1.23	438	.22	1.01	.56	206	114
3990	.01	.27	1.08	433	.29	.79	.55	79005	499
3980	.44	.20	.97	440	.19	.78	.37	177	84
3970	1.00	.16	2.42	442	.39	2.03	.60	203	60
3960	.76	.17	2.16	440	.36	1.80	.61	236	80
3950	.81	.17	1.95	441	.33	1.62	.69	200	85
3940	.49	.16	.94	437	.15	.79	.34	161	69
3930	1.00	.14	2.92	443	.40	2.52	.42	252	42
3920	.44	.19	1.10	434	.21	.89	.53	202	120
3910	.47	.20	1.10	436	.22	.88	.39	187	82
3900	.46	.18	1.41	434	.26	1.15	.43	250	93
3890	.52	.26	1.60	432	.41	1.19	.64	228	123
3880	.45	.17	1.15	437	.20	.95	.42	211	93
3870	.72	.21	2.48	438	.52	1.96	.55	272	76

3860	.59	.29	2.22	432	.64	1.58	.75	267	127
3850	.41	.22	1.20	429	.27	.93	.60	226	146
3840	.32	.21	.62	434	.13	.49	.35	153	109
3830	.28	.21	.56	434	.12	.44	.48	157	171
3820	.45	.15	1.24	436	.19	1.05	.57	233	126
3810	.65	.11	2.20	436	.24	1.96	.45	301	69
3800	.45	.11	1.26	434	.14	1.12	.30	248	66
3790	.63	.14	2.07	437	.30	1.77	.43	280	68
3780	.74	.11	2.30	437	.26	2.04	.48	275	64
3770	.60	.11	1.78	437	.20	1.58	.47	263	78
3760	.68	.10	2.03	438	.20	1.83	.40	269	58
3750	.76	.12	2.89	437	.35	2.54	.47	334	61
3740	.80	.11	3.00	438	.33	2.67	.63	333	78
3730	1.96	.07	10.00	439	.71	9.29	.77	473	39
3720	2.05	.06	10.99	439	.62	10.37	.85	505	41
3710	.63	.13	1.48	434	.19	1.29	.66	204	104
3700	.57	.18	1.01	433	.18	.83	.77	145	135
3690	.58	.29	1.11	433	.32	.79	.71	136	122
3680	.59	.16	.94	436	.15	.79	.56	133	94
3670	.59	.25	1.11	431	.28	.83	.78	140	132
3660	.83	.13	1.83	435	.24	1.59	.48	191	57
3650	.57	.19	1.10	432	.21	.89	.61	156	107
3640	.52	.13	1.01	434	.13	.88	.47	169	90
3630	.58	.19	1.29	433	.25	1.04	.52	179	89
3620	.51	.23	.73	432	.17	.56	.68	109	133
3610	.56	.12	.83	433	.10	.73	.47	130	83
3590	.86	.20	2.46	434	.48	1.98	.58	230	67
3580	.54	.20	.95	433	.19	.76	.53	140	98
3570	.54	.16	.96	432	.15	.81	.57	150	105
3560	.52	.22	.79	429	.17	.62	.67	119	128
3550	.48	.14	.63	435	.09	.54	.62	112	129
3540	.52	.20	1.04	429	.21	.83	.60	159	115
3530	.52	.24	.91	431	.22	.69	.56	132	107
3520	.45	.12	.57	432	.07	.50	.56	111	124
3510	.46	.23	.78	432	.18	.60	.72	130	156
3500	.44	.20	.51	432	.10	.41	.55	93	124
3490	.59	.15	.81	432	.12	.69	.78	116	132
3480	.52	.19	.75	431	.14	.61	.78	117	150
3470	.50	.23	.84	430	.19	.65	.79	130	158
3460	.55	.24	1.13	432	.27	.86	.67	156	121
3450	.55	.23	1.33	433	.30	1.03	.69	187	125
3440	.53	.25	1.00	432	.25	.75	1.18	141	222
3430	.08	.17	1.00	435	.17	.83	.70	1037	875
3420	.11	.20	1.38	433	.27	1.11	.34	1009	309
3420	.01	0.00	.01	0	0.00	.01	.01	100	100
3410	.09	.12	1.20	433	.14	1.06	.40	1177	444
3400	.20	.23	2.53	435	.58	1.95	.43	975	215
3390	.19	.16	2.36	436	.37	1.99	.30	1047	157
3380	.21	.13	2.54	437	.33	2.21	.32	1052	152
3370	.23	.27	2.89	433	.79	2.10	.69	913	300
3360	.11	.30	1.38	431	.42	.96	.54	872	490
3350	.59	.26	1.59	432	.42	1.17	.53	198	89

3340	.41	.20	.66	431	.13	.53	.35	129	85
3330	.42	.29	.82	431	.24	.58	.34	138	80
3320	.45	.18	.71	429	.13	.58	.45	128	100
3310	.45	.18	.62	432	.11	.51	.35	113	77
3300	.47	.12	.66	432	.08	.58	.39	123	82
3290	.79	.16	2.17	433	.34	1.83	.46	231	58
3270	.44	.21	.77	429	.16	.61	.50	138	113
3260	.53	.17	.98	430	.17	.81	.49	152	92
3250	0.54	.37	1.38	426	0.51	0.87	0.56	161	104
3240	0.72	.09	.81	433	0.07	0.74	0.56	103	78
3230	0.67	.20	1.75	436	0.35	1.40	0.41	209	61
3220	.39	.31	.72	436	.22	.50	.40	128	102
3210	.50	.38	1.24	430	.47	.77	.67	154	134
3200	.49	.24	.92	432	.22	.70	.52	142	106
3190	.53	.23	1.04	434	.24	.80	.38	150	71
3180	.52	.14	1.00	435	.14	.86	.31	165	59
3170	.60	.13	1.41	436	.18	1.23	.31	205	51
3160	.49	.21	.96	434	.20	.76	.38	155	77
3150	.47	.13	.75	434	.10	.65	.42	138	89
3140	.50	.29	1.06	434	.31	.75	.47	150	94
3130	.60	.20	1.40	436	.28	1.12	.41	186	68
3120	.55	.15	.86	434	.13	.73	.31	132	56
3110	.52	.12	.92	437	.11	.81	.37	155	71
3100	.68	.21	1.75	438	.37	1.38	.48	202	70
3090	.63	.12	1.11	438	.13	.98	.30	155	47
3080	.67	.13	1.58	439	.20	1.38	.32	205	47
3070	1.06	.13	2.86	438	.36	2.50	.41	235	38
3060	.71	.16	1.67	439	.27	1.40	.42	197	59
3050	.67	.22	1.66	436	.37	1.29	.42	192	62
3040	.65	.17	1.48	437	.25	1.23	.44	189	67
3030	.64	.22	1.46	436	.32	1.14	.37	178	57
3020	.62	.30	1.61	438	.48	1.13	.42	182	67
3010	.60	.15	1.16	440	.17	.99	.30	165	50
3000	.60	.12	1.05	435	.13	.92	.34	153	56
2990	.69	.20	1.64	437	.33	1.31	.48	189	69
2980	.51	.11	.90	435	.10	.80	.34	156	66
2970	.57	.15	1.19	435	.18	1.01	.44	177	77
2960	.57	.12	.98	435	.12	.86	.38	150	66
2950	.62	.13	1.45	438	.19	1.26	.38	203	61
2940	.60	.15	1.37	435	.21	1.16	.46	193	76
2930	.42	.10	.87	435	.09	.78	.34	185	80
2920	.38	.12	.83	436	.10	.73	.35	192	92
2910	.55	.10	1.35	435	.13	1.22	.42	221	76
2900	.93	.12	3.02	436	.35	2.67	.48	287	51
2890	.67	.10	1.46	437	.15	1.31	.38	195	56
2880	.57	.14	1.05	437	.15	.90	.42	157	73
2870	.57	.14	1.21	436	.17	1.04	.35	182	61
2860	.72	.09	1.79	437	.16	1.63	.33	226	45
2850	.77	.13	2.35	438	.31	2.04	.39	264	50
2840	.52	.18	.72	436	.13	.59	.33	113	63
2830	.49	.14	.79	436	.11	.68	.30	138	61
2820	.54	.10	1.05	436	.11	.94	.26	174	48

2810	.65	.16	1.26	436	.20	1.06	.39	163	60
2790	.50	.18	.88	435	.16	.72	.38	144	76
2780	.49	.19	.86	431	.16	.70	.40	142	81
2770	.53	.18	.91	434	.16	.75	.35	141	66
2760	.65	.21	1.12	433	.24	.88	.31	135	47
2750	.63	.13	.94	437	.12	.82	.33	130	52
2740	.54	.16	.83	437	.13	.70	.32	129	59
2730	.66	.14	1.55	435	.21	1.34	.26	203	39
2720	.46	.12	.94	431	.11	.83	.31	180	67
2710	.50	.16	1.11	433	.18	.93	.28	186	55
2920	.67	.16	1.13	436	.18	.95	.39	141	58
2730	.66	.14	1.55	435	.21	1.34	.26	203	39
2720	.46	.12	.94	431	.11	.83	.31	180	67
2710	.50	.16	1.11	433	.18	.93	.28	186	55
2700	.50	.16	1.57	434	.25	1.32	.32	264	64
2690	.71	.11	1.86	435	.20	1.66	.32	233	45
2680	.33	.16	.68	435	.11	.57	.30	172	90
2670	.37	.10	.68	433	.07	.61	.18	164	48
2660	1.05	.11	2.64	437	.28	2.36	.30	224	28
2650	.68	.13	1.19	435	.16	1.03	.31	151	45
2640	.71	.13	1.28	434	.17	1.11	.28	156	39
2630	.65	.12	.78	436	.09	.69	.27	106	41
2610	.74	.27	1.53	434	.41	1.12	.49	151	66
2600	.82	.11	1.50	436	.16	1.34	.29	163	35
2590	.79	.15	1.34	436	.20	1.14	.35	144	44
2580	.62	.17	1.00	437	.17	.83	.36	133	58
2570	.57	.09	.64	436	.06	.58	.25	101	43
2560	.55	.21	.62	436	.13	.49	.44	89	80
2550	.65	.08	.75	436	.06	.69	.46	106	70
2540	.55	.17	.70	433	.12	.58	.42	105	76
2530	.48	.08	.49	433	.04	.45	.32	93	66
2520	.37	.12	.51	436	.06	.45	.29	121	78
2510	.88	.16	2.34	436	.37	1.97	.35	223	39
2500	.70	.15	1.22	435	.18	1.04	.32	148	45
2490	.85	.09	1.94	437	.17	1.77	.29	208	34
2480	.81	.11	2.27	438	.24	2.03	.33	250	40
2470	.88	.08	2.03	434	.16	1.87	.33	212	37
2450	1.76	.10	6.02	436	.62	5.40	.56	306	31
2440	1.08	.16	2.54	436	.40	2.14	.59	198	54
2430	1.06	.09	2.17	437	.20	1.97	.41	185	38
2420	1.07	.14	2.47	436	.35	2.12	.45	198	42
2410	1.01	.10	1.93	437	.20	1.73	.39	171	38
2400	1.51	.06	4.53	440	.27	4.26	.41	282	27
2390	1.87	.05	6.90	441	.32	6.58	.56	351	29
2380	1.35	.06	4.00	438	.26	3.74	.57	277	42
2370	1.12	.14	2.42	438	.35	2.07	.62	184	55
2360	1.02	.10	1.88	438	.18	1.70	.40	166	39
2350	.75	.13	1.30	434	.17	1.13	.47	150	62
2340	.85	.11	1.92	432	.21	1.71	.50	201	58
2320	.43	.15	.71	431	.11	.60	.19	139	44
2310	1.06	.06	2.79	434	.18	2.61	.34	246	32
2300	1.57	.06	5.24	434	.29	4.95	.56	315	35

2290	1.64	.05	6.07	434	.30	5.77	.62	351	37
2280	1.89	.05	7.30	433	.39	6.91	.71	365	37
2270	1.95	.08	7.62	435	.58	7.04	.80	361	41
2260	2.48	.05	11.01	432	.59	10.42	.89	420	35
2250	2.31	.04	10.11	434	.45	9.66	.87	418	37
2240	1.41	.07	4.25	436	.28	3.97	.66	281	46
2230	1.52	.06	4.77	435	.27	4.50	.62	296	40
2220	1.76	.05	6.33	432	.33	6.00	.52	340	29
2210	3.75	.04	20.31	429	.84	19.47	1.16	519	30
2200	3.35	.04	17.53	431	.76	16.77	.93	500	27
2190	4.72	.04	25.38	428	1.08	24.30	1.29	514	27
2180	4.90	.04	27.21	429	1.10	26.11	1.18	532	24
2170	1.57	.06	5.88	437	.37	5.51	.67	350	42
2160	3.86	.04	19.92	429	.76	19.16	1.12	496	29
2150	3.53	.04	17.42	431	.68	16.74	.99	474	28
2140	3.62	.04	18.13	431	.65	17.48	.98	482	27
2130	3.38	.03	17.13	431	.53	16.60	1.01	491	29
2120	5.16	.03	28.96	431	1.01	27.95	1.34	541	25
2110	4.11	.05	21.26	429	1.07	20.19	1.27	491	30
2100	2.91	.03	13.31	432	.46	12.85	.86	441	29
2090	.97	.12	2.35	436	.29	2.06	.55	212	56
2080	.88	.07	2.22	437	.15	2.07	.53	235	60
2070	.39	.07	.74	435	.05	.69	.24	176	61
2060	1.02	.06	1.95	437	.12	1.83	.58	179	56
2040	.78	.08	2.01	439	.16	1.85	.52	237	66
2030	.83	.07	1.39	437	.10	1.29	.56	155	67
2020	.76	.10	1.45	436	.15	1.30	.49	171	64
2010	.66	.06	.67	436	.04	.63	.34	95	51
2000	.67	.10	.84	436	.08	.76	.40	113	59
1990	.68	.09	.70	436	.06	.64	.37	94	54
1980	.72	.15	.95	435	.14	.81	.51	112	70
1970	.70	.09	.88	437	.08	.80	.38	114	54
1960	.71	.10	.93	437	.09	.84	.33	118	46
1950	.75	.08	1.09	436	.09	1.00	.35	133	46
1940	.84	.10	1.91	438	.19	1.72	.53	204	63
1930	.73	.22	1.47	436	.32	1.15	.62	157	84
1920	.75	.11	.87	434	.10	.77	.34	102	45
1910	.59	.06	.66	436	.04	.62	.31	105	52
1900	.88	.09	1.62	438	.14	1.48	.49	168	55
1890	1.08	.03	3.11	436	.10	3.01	.65	278	60
1880	1.17	.05	3.98	437	.19	3.79	.66	323	56
1870	.76	.08	1.78	438	.14	1.64	.57	215	75
1860	.76	.21	2.54	434	.54	2.00	.82	263	107
1850	.49	.22	1.17	436	.26	.91	.70	185	142
1840	.67	.23	1.95	435	.44	1.51	.75	225	111
1830	.59	.14	2.16	438	.31	1.85	.67	313	113
1820	.80	.09	1.69	437	.15	1.54	.52	192	65
1810	.72	.11	1.39	435	.15	1.24	.50	172	69
1800	.57	0.00	.01	0	0.00	.01	.43	1	75
1790	.77	.14	1.12	436	.16	.96	.39	124	50
1780	.79	.22	1.48	434	.32	1.16	.60	146	75
1770	.77	.18	1.37	432	.24	1.13	.54	146	70

1760	.78	.25	2.20	428	.56	1.64	.80	210	102
1750	.74	.26	2.90	429	.76	2.14	.82	289	110
1740	.62	.32	2.46	431	.79	1.67	.84	269	135
1730	.49	.30	1.60	431	.48	1.12	.74	228	151
1720	.48	.26	1.02	432	.27	.75	.54	156	112
1710	.53	0.00	.01	0	0.00	.01	.34	1	64
1700	.66	.14	.92	429	.13	.79	.34	119	51
1690	.56	.27	1.25	428	.34	.91	.51	162	91
1680	.33	.44	.80	427	.35	.45	.58	136	175
1670	1.22	.06	5.19	433	.29	4.90	.62	401	50
1660	.52	0.00	.01	0	0.00	.01	.77	1	148
1650	.54	.31	.93	426	.29	.64	.48	118	88
1640	.62	.26	1.93	420	.51	1.42	.63	229	101
1630	.29	0.00	.01	0	0.00	.01	.81	3	279
1620	.45	.17	.95	431	.16	.79	.55	175	122
1610	.54	0.00	.01	0	0.00	.01	.57	1	105
1600	.56	0.00	.01	0	0.00	.01	.52	1	92
1590	.69	.21	1.22	431	.26	.96	.46	139	66
1580	.50	.40	1.14	426	.46	.68	.53	136	106
1570	.67	.21	1.36	431	.28	1.08	.52	161	77
1560	.51	.35	1.18	429	.41	.77	.65	150	127
1550	.48	.36	1.26	428	.45	.81	.64	168	133
1540	.43	.26	.57	429	.15	.42	.38	97	88
1530	.34	.39	.99	423	.39	.60	.64	176	188
1520	.25	.52	.93	420	.48	.45	.52	180	208
1510	.26	.45	.56	433	.25	.31	.36	119	138
1500	.46	.32	.84	431	.27	.57	.50	123	108
1490	.36	.27	.70	425	.19	.51	.38	141	105
1480	.18	.52	.46	429	.24	.22	.41	122	227
1470	.40	.31	.85	436	.26	.59	.39	147	97
1460	.45	.35	.96	434	.34	.62	.40	137	88
1450	.21	.53	.45	430	.24	.21	.33	100	157
1440	.47	.31	1.00	434	.31	.69	.44	146	93
1430	.44	.35	.72	438	.25	.47	.48	106	109
1420	.10	.46	.35	428	.16	.19	.36	190	360
1410	.45	.30	.81	432	.24	.57	.39	126	86
1400	.42	.25	1.90	430	.48	1.42	.48	338	114
1390	.31	0.00	.01	0	0.00	.01	.53	3	170
1380	.32	.26	.99	431	.26	.73	.47	228	146
1370	.26	.36	.64	431	.23	.41	.37	157	142
1360	.26	.38	.45	429	.17	.28	.29	107	111
1350	.44	.31	.71	429	.22	.49	.47	111	106
1340	.54	.21	1.12	433	.23	.89	.36	164	66
1330	.27	.23	.96	429	.22	.74	.59	274	218
1320	.26	0.00	.01	0	0.00	.01	.67	3	257
1310	.46	.22	1.14	429	.25	.89	.53	193	115
1290	.10	.44	.27	434	.12	.15	.28	150	280
1280	.11	.39	.33	434	.13	.20	.30	181	272
1270	.07	.42	.24	429	.10	.14	.26	200	371
1260	.09	.40	.25	435	.10	.15	.16	166	177
1250	.14	.47	.53	433	.25	.28	.20	200	142
1240	.22	.50	.76	426	.38	.38	.26	172	118

1230	.24	.32	.78	433	.25	.53	.35	220	145
1220	.23	.31	.55	426	.17	.38	.33	165	143
1210	.19	.37	.38	417	.14	.24	.19	126	100
1200	.16	.33	.43	428	.14	.29	.40	181	250
1190	.26	.21	1.27	429	.27	1.00	.40	384	153
1180	.35	.21	1.32	431	.28	1.04	.48	297	137
1170	.67	.23	1.75	437	.40	1.35	.56	201	83
1160	.20	0.00	.01	0	0.00	.01	.46	5	230
1150	.34	.21	1.19	431	.25	.94	.53	276	155
1140	.41	.26	1.70	431	.44	1.26	.54	307	131
1130	.13	.36	.28	425	.10	.18	.44	138	338
1120	.17	.34	.35	431	.12	.23	.30	135	176
1110	.20	.27	.41	433	.11	.30	.23	150	115
1100	.25	.30	1.15	432	.34	.81	.41	324	164
1090	.22	.28	.74	430	.21	.53	.38	240	172
1080	.33	0.00	.01	0	0.00	.01	.38	3	115
1070	.34	.21	1.66	430	.35	1.31	.50	385	147
1060	.32	.38	1.57	424	.60	.97	.51	303	159
1050	.20	0.00	.01	0	0.00	.01	.60	5	300
1040	.19	0.00	.01	0	0.00	.01	.61	5	321
1030	.40	.41	2.28	427	.93	1.35	.59	337	147
1020	.25	.36	.56	432	.20	.36	.54	144	216
1010	.13	.28	.25	438	.07	.18	.27	138	207
1000	.30	.28	.61	437	.17	.44	.29	146	96
990	.25	.48	.85	416	.41	.44	.49	176	196
980	.28	.34	1.36	423	.46	.90	.63	321	225
970	.74	0.00	.01	0	0.00	.01	.55	1	74
940	.94	.16	1.41	444	.22	1.19	.35	126	37
930	.82	0.00	.01	0	0.00	.01	.44	1	53
920	1.34	0.00	.01	0	0.00	.01	.43	0	32
910	1.78	.17	2.97	444	.50	2.47	.57	138	32
900	1.51	.18	1.53	444	.27	1.26	.52	83	34
890	1.14	.16	1.10	445	.18	.92	.40	80	35
880	.99	.14	1.23	446	.17	1.06	.36	107	36
870	1.22	.11	2.00	449	.22	1.78	.44	145	36
860	1.29	.14	2.12	444	.30	1.82	.52	141	40
850	1.10	.07	1.57	447	.11	1.46	.45	132	40
840	1.05	.07	.57	435	.04	.53	.57	50	54
830	1.37	.11	2.42	446	.27	2.15	.56	156	40
820	1.43	.11	2.91	447	.32	2.59	.42	181	29
810	1.37	.07	2.44	447	.18	2.26	.47	164	34
800	1.49	.14	2.82	447	.40	2.42	.48	162	32
790	1.42	.06	2.66	449	.16	2.50	.41	176	28
780	1.61	0.00	2.32	529	0.00	2.32	.26	144	16
770	1.72	.04	3.76	489	.16	3.60	.31	209	18
760	1.70	.03	3.91	492	.10	3.81	.26	224	15
750	2.43	.02	8.42	489	.17	8.25	.35	339	14
740	1.37	.09	2.19	482	.19	2.00	.42	145	30
720	1.38	.04	2.24	482	.09	2.15	.40	155	28
710	1.39	.03	1.97	481	.06	1.91	.30	137	21
700	1.35	.06	2.16	478	.12	2.04	.32	151	23
690	1.27	.10	1.97	464	.19	1.78	.38	140	29

680	.18	.10	2.29	464	.23	2.06	.37	1144	205
680	.17	.11	2.13	463	.23	1.90	.34	1117	200
670	1.30	.08	2.26	462	.17	2.09	.38	160	29
660	1.32	.05	1.87	465	.09	1.78	.25	134	18
650	1.34	.06	2.49	461	.15	2.34	.33	174	24
640	3.60	.01	16.65	462	.17	16.48	.66	457	18
630	1.47	.11	2.43	462	.27	2.16	.53	146	36
630	1.46	.12	2.50	462	.29	2.21	.44	151	30
620	1.15	.05	1.40	467	.07	1.33	.22	115	19
610	1.17	.10	1.57	468	.16	1.41	.19	120	16
600	1.15	.14	1.79	467	.25	1.54	.26	133	22
590	1.18	.07	1.95	487	.14	1.81	.14	153	11
580	1.11	.06	1.97	485	.11	1.86	.19	167	17
570	1.10	.04	1.50	478	.06	1.44	.16	130	14
560	1.22	.20	2.55	467	.50	2.05	.40	168	32
550	1.13	.09	1.98	468	.18	1.80	.23	159	20
540	1.22	.08	2.16	468	.17	1.99	.22	163	18
530	1.15	.06	1.92	468	.12	1.80	.19	156	16
520	1.22	.17	2.25	465	.38	1.87	.60	153	49
510	1.20	.10	1.96	467	.20	1.76	.21	146	17
500	1.23	.17	2.36	465	.39	1.97	.39	160	31
490	1.18	.06	1.96	468	.11	1.85	.31	156	26
480	1.37	.05	2.16	465	.11	2.05	.32	149	23
470	1.75	.01	.83	468	.01	.82	.43	46	24
460	1.54	.09	2.52	466	.22	2.30	.46	149	29
460	1.37	.24	3.23	446	.79	2.44	.76	178	55
450	1.62	.17	3.58	464	.62	2.96	.59	182	36
440	1.67	.21	3.45	464	.71	2.74	.72	164	43
430	1.64	.11	3.31	465	.35	2.96	.47	180	28
420	1.53	.07	2.61	465	.19	2.42	.39	158	25
410	1.38	.08	1.97	466	.15	1.82	.42	131	30
400	1.44	.11	2.36	468	.25	2.11	.41	146	28
390	1.45	.12	2.60	466	.31	2.29	.37	157	25
380	.84	.10	1.21	464	.12	1.09	.33	129	39
370	1.55	.06	2.86	464	.18	2.68	.39	172	25
360	.89	.10	1.97	463	.20	1.77	.54	198	60
350	1.12	.12	2.64	465	.32	2.32	.70	207	62
340	.86	.07	1.40	468	.10	1.30	.31	151	36
330	1.09	.10	2.35	466	.24	2.11	.44	193	40
320	1.11	.11	2.33	464	.26	2.07	.46	186	41
310	1.73	.02	.85	469	.02	.83	.46	47	26
300	1.07	.10	2.51	472	.24	2.27	.36	212	33
290	1.21	.07	2.37	467	.16	2.21	.38	182	31
280	1.22	.12	1.30	469	.16	1.14	.36	93	29
270	1.12	.11	1.31	468	.14	1.17	.25	104	22
260	1.14	.10	1.20	467	.12	1.08	.28	94	24
250	1.19	.13	1.46	466	.19	1.27	.33	106	27
240	1.17	.23	1.58	463	.37	1.21	.38	103	32
230	1.07	.09	1.16	467	.10	1.06	.23	99	21
220	1.25	.19	1.43	465	.27	1.16	.41	92	32
210	1.10	.23	1.24	468	.28	.96	.33	87	30
200	1.10	.11	1.19	465	.13	1.06	.26	96	23

190	1.11	.15	1.03	463	.15	.88	.36	79	32
180	1.80	.03	.80	475	.02	.78	.48	43	26
170	1.01	.05	.96	476	.05	.91	.13	90	12
160	1.04	.21	1.12	469	.23	.89	.26	85	25
150	1.13	.10	1.21	469	.12	1.09	.28	96	24
140	1.12	.18	1.46	469	.26	1.20	.26	107	23
130	1.22	.23	2.60	464	.60	2.00	.44	163	36
120	1.37	.17	3.32	466	.58	2.74	.43	200	31
110	1.08	.19	2.00	466	.38	1.62	.30	150	27
100	1.36	.20	4.84	462	.95	3.89	.54	286	39
90	1.10	.15	1.95	468	.30	1.65	.28	150	25
80	.01	0.00	.01	0	0.00	.01	.01	100	100
70	.75	.39	1.01	440	.39	.62	1.08	82	144
60	.96	.20	1.74	431	.35	1.39	1.08	144	112
50	.90	.25	2.33	433	.58	1.75	.73	194	81
40	1.08	.38	2.87	415	1.09	1.78	1.19	164	110
30	.99	.51	1.88	416	.96	.92	1.96	92	197
20	1.58	.39	5.03	408	1.97	3.06	2.96	193	187

Western Minerals Chance YT #1 L-08

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
8640F	1.18	.37	1.64	460	.60	1.04	2.24	88	189
8620F	1.25	.40	1.09	450	.44	.65	.59	52	47
8600	1.51	.31	1.88	450	.59	1.29	.37	85	24
8580	1.34	.32	1.73	461	.56	1.17	1.17	87	87
8560	1.49	.34	1.93	456	.65	1.28	.50	85	33
8540	1.41	.32	2.10	457	.67	1.43	.66	101	46
8520	1.59	.29	2.21	455	.64	1.57	.94	98	59
8500	1.39	.34	1.82	459	.61	1.21	.83	87	59
8480	1.47	.28	2.25	453	.63	1.62	.40	110	27
8460	1.35	.30	1.87	456	.56	1.31	.43	97	31
8440	1.48	.31	1.90	453	.58	1.32	.41	89	27
8420	1.46	.32	1.74	459	.56	1.18	.92	80	63
8400	1.39	.17	2.08	330	.35	1.73	.68	124	48
8380	.79	.33	1.76	457	.58	1.18	.56	149	70
8360	1.34	.35	1.75	452	.61	1.14	.68	85	50
8340	1.45	.34	1.87	459	.64	1.23	.92	84	63
8320	1.49	.30	2.12	452	.64	1.48	.77	99	51
8300	1.38	.32	2.02	452	.65	1.37	.62	99	44
8280	1.59	.29	2.80	455	.80	2.00	.59	125	37
8260	1.44	.37	1.77	453	.65	1.12	.83	77	57
8240	1.23	.34	1.79	453	.60	1.19	.64	96	52
8220	1.26	.30	1.86	453	.56	1.30	.62	103	49
8200	1.38	.29	2.20	454	.64	1.56	.50	113	36
8180	1.21	.31	1.71	451	.53	1.18	.42	97	34
8160	1.36	.29	2.34	455	.69	1.65	.65	121	47
8140	1.46	.27	3.00	456	.80	2.20	.63	150	43
8120	1.43	.28	2.77	458	.78	1.99	.77	139	53
8100	1.48	.29	2.20	455	.64	1.56	.51	105	34
8080	1.36	.26	2.44	457	.64	1.80	.62	132	45
8060	1.44	.25	2.75	455	.70	2.05	.43	142	29
8040	1.38	.27	2.70	457	.73	1.97	.61	142	44
8020	1.60	.30	2.40	456	.72	1.68	.40	105	25
8000	1.22	.27	2.23	454	.61	1.62	.60	132	49
7980	1.47	.25	2.29	455	.58	1.71	.65	116	44
7960	1.25	.26	2.10	456	.54	1.56	.68	124	54
7940	.99	.26	1.61	457	.42	1.19	.74	120	74
7920	1.18	.24	1.93	454	.46	1.47	.53	124	44
7900	1.34	.24	1.95	457	.46	1.49	.58	111	43
7880	1.46	.25	2.50	459	.63	1.87	.64	128	43
7860	1.41	.25	2.33	454	.58	1.75	1.18	124	83
7840	1.42	.25	2.46	455	.62	1.84	.64	129	45
7820	1.69	.22	2.77	452	.60	2.17	.49	128	28
7800	1.42	.23	2.56	452	.59	1.97	.64	138	45
7780	1.08	.24	1.63	457	.39	1.24	.88	114	81
7760	1.26	.25	1.79	456	.45	1.34	.56	106	44
7740	1.38	.25	2.28	457	.56	1.72	.69	124	49
7720	1.41	.26	2.50	456	.66	1.84	1.20	130	85
7700	1.28	.25	2.08	456	.51	1.57	1.13	122	88
7680	1.57	.23	3.03	453	.69	2.34	.68	149	43

7660	1.35	.26	2.34	454	.61	1.73	.90	128	66
7660	1.21	.26	2.28	458	.59	1.69	.86	139	71
7640	1.31	.24	2.14	453	.51	1.63	1.09	124	83
7640	1.28	.25	2.19	458	.54	1.65	.90	128	70
7620	1.55	.22	2.88	452	.64	2.24	.66	144	42
7620	1.45	0.00	2.83	397	0.00	2.83	.47	195	32
7600	1.46	.23	2.70	453	.62	2.08	.85	142	58
7580	1.35	.23	2.66	455	.60	2.06	1.02	152	75
7560	1.35	.25	2.13	458	.53	1.60	1.20	118	88
7540	1.26	.25	2.69	455	.67	2.02	.58	160	46
7520	1.65	.21	2.84	452	.61	2.23	.56	135	33
7500	1.62	.22	2.95	453	.66	2.29	.60	141	37
7480	.93	.21	2.56	453	.55	2.01	.65	216	69
7460	1.39	.20	2.78	453	.56	2.22	.83	159	59
7440	1.61	.19	2.83	454	.54	2.29	.71	142	44
7420	1.27	.21	2.57	454	.54	2.03	.66	159	51
7400	1.31	.21	3.12	451	.66	2.46	.50	187	38
7380	1.14	.23	2.11	450	.49	1.62	.72	142	63
7360	1.03	.23	1.82	449	.42	1.40	.62	135	60
7340	1.37	.21	2.43	451	.50	1.93	.81	140	59
7320	1.19	.23	2.22	450	.50	1.72	.82	144	68
7300	1.09	.24	2.04	448	.49	1.55	.87	142	79
7280	.98	.25	1.84	455	.46	1.38	1.05	140	107
7260	1.05	.21	2.24	450	.46	1.78	.34	169	32
7240	1.11	.25	2.13	449	.53	1.60	.57	144	51
7220	1.05	.21	2.03	452	.42	1.61	.60	153	57
7200	1.24	.20	3.07	449	.60	2.47	.57	199	45
7200	1.49	.19	2.83	444	.55	2.28	.54	153	36
7180	1.17	.20	2.71	450	.53	2.18	.68	186	58
7160	.71	.23	1.20	450	.28	.92	.71	129	100
7160	.78	.25	1.05	440	.26	.79	.67	101	85
7140	1.29	.21	2.22	447	.47	1.75	1.44	135	111
7140	1.51	.19	2.37	447	.46	1.91	1.97	126	130
7120	1.30	.18	2.79	449	.50	2.29	.68	176	52
7100	1.51	.17	3.13	446	.53	2.60	.47	172	31
7080	1.74	.14	4.80	448	.65	4.15	.31	238	17
7080	1.80	.12	5.25	447	.65	4.60	.60	255	33
7060	1.87	.15	4.54	448	.67	3.87	1.01	206	54
7040	1.42	.12	4.86	449	.60	4.26	.59	300	41
7020	1.99	.12	5.47	447	.65	4.82	.87	242	43
7000	2.02	.12	6.70	449	.78	5.92	1.45	293	71
6980	1.76	.13	5.14	449	.66	4.48	.73	254	41
6960	2.07	.12	5.24	447	.62	4.62	.84	223	40
6940	1.98	.12	6.45	446	.75	5.70	1.10	287	55
6920	2.31	.09	8.07	446	.75	7.32	.79	316	34
6900	2.26	.09	7.61	448	.72	6.89	.82	304	36
6880	2.73	.09	12.01	445	1.11	10.90	.93	399	34
6860	2.88	.08	12.63	449	.95	11.68	.75	405	26
6840	2.81	.11	11.83	447	1.34	10.49	.71	373	25
6820	2.96	.09	10.90	447	.95	9.95	.55	336	18
6800	3.31	.09	14.08	448	1.28	12.80	.73	386	22
6780	4.07	.10	18.99	449	1.86	17.13	.82	420	20

6760	3.86	.11	16.28	450	1.76	14.52	.88	376	22
6740	1.69	.13	5.28	447	.68	4.60	.66	272	39
6720	2.63	.13	10.00	445	1.31	8.69	.78	330	29
6700	1.06	.21	3.03	445	.64	2.39	.67	225	63
6680	.51	.29	1.41	451	.41	1.00	.50	196	98
6660	.62	.34	1.93	445	.65	1.28	.62	206	100
6640	1.02	.24	3.24	444	.77	2.47	.75	242	73
6620	.97	.27	2.78	447	.76	2.02	.56	208	57
6600	1.09	.32	3.19	448	1.03	2.16	.66	198	60
6580	1.03	.30	3.29	446	1.00	2.29	.71	222	68
6560	.90	.29	2.85	444	.82	2.03	.74	225	82
6540	.31	.37	.99	446	.37	.62	.28	200	90
6520	.17	.42	.55	444	.23	.32	.42	188	247
6500	.26	.53	1.06	443	.56	.50	.46	192	176
6480	.18	.57	.63	442	.36	.27	.38	150	211
6460	.27	.45	.75	442	.34	.41	.49	151	181
6440	.95	.36	2.22	447	.80	1.42	.62	149	65
6420	.51	.38	1.52	445	.58	.94	.47	184	92
6400	1.33	.33	3.85	447	1.26	2.59	.75	194	56
6380	.34	.54	1.23	436	.66	.57	.53	167	155
6360	.71	.45	2.58	437	1.16	1.42	.62	200	87
6340	.52	.41	1.55	443	.63	.92	.42	176	80
6320	.24	.46	.59	442	.27	.32	.29	133	120
6300	.21	.53	.66	443	.35	.31	.24	147	114
6280	.16	.51	.59	440	.30	.29	.26	181	162
6260	.17	.58	.55	440	.32	.23	.28	135	164
6240	.17	.57	.60	440	.34	.26	.24	152	141
6220	.20	.56	.62	439	.35	.27	.31	135	155
6200	.26	.47	.64	442	.30	.34	.83	130	319
6180	.24	.57	.68	445	.39	.29	.36	120	150
6160	.19	.52	.64	446	.33	.31	.31	163	163
6140	.20	.50	.54	444	.27	.27	.31	135	155
6120	.23	.50	.64	448	.32	.32	.26	139	113
6100	.39	.39	.97	444	.38	.59	.43	151	110
6080	1.50	.27	4.54	448	1.21	3.33	.72	222	48
6060	1.68	.27	4.84	448	1.33	3.51	.76	208	45
6040	1.47	.30	3.96	448	1.19	2.77	.56	188	38
6020	.12	.53	.30	440	.16	.14	.13	116	108
6000	.14	.44	.36	446	.16	.20	.19	142	135
5980	.24	.44	.57	447	.25	.32	.19	133	79
5960	.18	.42	.45	447	.19	.26	.16	144	88
5940	.30	.46	.71	451	.33	.38	.27	126	90
5920	.15	.35	.40	446	.14	.26	.17	173	113
5900	.23	.45	.62	440	.28	.34	.32	147	139
5880	.27	.45	.71	446	.32	.39	.31	144	114
5860	.30	.42	.78	446	.33	.45	.39	150	130
5840	.27	.44	.71	445	.31	.40	.31	148	114
5820	.22	.41	.54	445	.22	.32	.26	145	118
5800	.24	.35	.57	445	.20	.37	.28	154	116
5780	.29	.33	.64	444	.21	.43	.22	148	75
5760	.32	.37	.73	446	.27	.46	.22	143	68
5740	.25	.30	.57	445	.17	.40	.19	160	76

5720	.23	.31	.52	445	.16	.36	.16	156	69
5700	.18	.30	.40	446	.12	.28	.18	155	100
5680	.46	.31	1.17	444	.36	.81	.43	176	93
5660	.31	.29	.78	445	.23	.55	.26	177	83
5640	.29	.33	.72	449	.24	.48	.31	165	106
5620	.28	.23	.74	446	.17	.57	.15	203	53
5600	.16	.26	.38	446	.10	.28	.10	174	62
5580	.26	.26	.68	443	.18	.50	.17	192	65
5560	.20	.30	.47	442	.14	.33	.15	165	75
5540	.21	.25	.60	443	.15	.45	.13	214	61
5520	.17	.42	.43	443	.18	.25	.21	147	123
5500	.19	.39	.44	445	.17	.27	.17	142	89
5480	.18	.35	.49	446	.17	.32	.18	177	100
5460	.16	.31	.48	447	.15	.33	.17	206	106
5440	.23	.29	.59	442	.17	.42	.22	182	95
5420	.26	.27	.67	442	.18	.49	.24	188	92
5400	.29	.27	.74	446	.20	.54	.25	186	86
5380	.22	.35	.46	447	.16	.30	.19	136	86
5360	.18	.38	.45	444	.17	.28	.41	155	227
5340	.23	.31	.61	439	.19	.42	.29	182	126
5320	.33	.36	.86	437	.31	.55	.49	166	148
5300	.45	.32	1.33	442	.42	.91	.47	202	104
5280	.78	.21	2.15	445	.46	1.69	.47	216	60
5260	.35	.32	1.00	441	.32	.68	.44	194	125
5240	.22	.37	.51	438	.19	.32	.28	145	127
5220	.24	.27	.48	436	.13	.35	.58	145	241
5200	.85	.18	1.47	440	.27	1.20	.55	141	64
5180	.32	.38	.96	437	.36	.60	.44	187	137
5160	.31	.42	.91	435	.38	.53	.48	170	154
5140	.32	.43	.76	439	.33	.43	.43	134	134
5120	.36	.28	.76	441	.21	.55	.26	152	72
5100	.25	.31	.59	439	.18	.41	.20	164	80
5080	.21	.36	.50	438	.18	.32	.24	152	114
5060	.64	.22	1.16	440	.26	.90	.30	140	46
5040	.22	.27	.49	442	.13	.36	.29	163	131
5020	.14	.33	.33	439	.11	.22	.14	157	100
5000	.22	.28	.53	443	.15	.38	.29	172	131
4980	.39	.26	.73	439	.19	.54	.62	138	158
4960	.41	.24	.84	443	.20	.64	.22	156	53
4940	.51	.21	.90	442	.19	.71	.29	139	56
4920	.34	.27	.71	441	.19	.52	.22	152	64
4900	.42	.27	.70	437	.19	.51	.28	121	66
4880	.46	.20	.84	440	.17	.67	.17	145	36
4860	.23	.32	.31	437	.10	.21	.16	91	69
4840	.30	.30	.57	443	.17	.40	.13	133	43
4820	.34	.27	.78	441	.21	.57	.17	167	50
4800	.41	.23	.79	439	.18	.61	.18	148	43
4780	.48	.20	.80	439	.16	.64	.19	133	39
4760	.95	.16	1.44	441	.23	1.21	.51	127	53
4740	.82	.17	2.08	444	.35	1.73	.41	210	50
4720	.59	.20	1.38	444	.27	1.11	.21	188	35
4700	.33	.21	.42	440	.09	.33	.26	100	78

4680	.44	.18	.62	441	.11	.51	.22	115	50
4660	.57	.19	.86	441	.16	.70	.33	122	57
4640	.61	.16	1.46	443	.23	1.23	.38	201	62
4620	.89	.14	1.75	441	.25	1.50	.29	168	32
4600	1.06	.12	1.62	444	.20	1.42	.34	133	32
4580	.93	.12	1.46	440	.17	1.29	.41	138	44
4560	.87	.11	1.68	440	.19	1.49	.38	171	43
4540	1.26	.07	3.47	438	.26	3.21	.39	254	30
4520	.97	.15	1.86	439	.27	1.59	.33	163	34
4500	.63	.18	.82	437	.15	.67	.23	106	36
4480	.91	.16	1.65	440	.26	1.39	.33	152	36
4460	.78	.14	1.26	439	.18	1.08	.34	138	43
4440	.61	.18	1.17	438	.21	.96	.27	157	44
4420	.86	.19	1.39	436	.27	1.12	.31	130	36
4400	.75	.14	1.36	437	.19	1.17	.40	156	53
4380	1.11	.11	1.31	443	.14	1.17	.38	105	34
4360	1.26	.13	2.27	443	.29	1.98	.45	157	35
4340	1.50	.15	4.55	441	.66	3.89	.65	259	43
4320	.81	.19	1.84	440	.35	1.49	.36	183	44
4300	1.03	.11	1.24	439	.14	1.10	.53	106	51
4280	1.11	.10	1.66	442	.17	1.49	.44	134	39
4260	1.18	.12	2.16	444	.25	1.91	.48	161	40
4240	.92	.09	2.27	437	.21	2.06	.36	223	39
4220	.98	.14	2.56	445	.36	2.20	.61	224	62
4200	.93	.18	2.29	447	.42	1.87	.45	201	48
4180	.95	.10	2.23	446	.23	2.00	.41	210	43
4160	1.48	.08	4.32	444	.35	3.97	.54	268	36
4140	.79	.10	1.97	443	.19	1.78	.39	225	49
4120	.98	.11	2.97	445	.33	2.64	.65	269	66
4110	1.13	.10	2.15	440	.21	1.94	.33	171	29
4080	.87	.10	1.67	436	.17	1.50	.46	172	52
4060	1.00	.09	2.02	436	.18	1.84	.45	184	45
4040	.88	.11	2.61	434	.29	2.32	.43	263	48
4020	1.06	.09	2.22	436	.20	2.02	.37	190	34
4000	1.12	.11	1.60	445	.17	1.43	.48	127	42
3980	1.08	.10	1.38	440	.14	1.24	.54	114	50
3960	.98	.09	1.12	439	.10	1.02	.49	104	50
3940	.89	.11	1.28	439	.14	1.14	.48	128	53
3920	.92	.10	1.34	440	.14	1.20	.41	130	44
3900	.79	.11	1.04	440	.11	.93	.40	117	50
3880	.70	.10	.91	441	.09	.82	.38	117	54
3860	.61	.13	.68	440	.09	.59	.35	96	57
3840	.74	.10	.97	439	.10	.87	.37	117	50
3820	.89	.09	1.01	440	.09	.92	.43	103	48
3800	1.07	.10	1.47	442	.14	1.33	.52	124	48
3780	1.06	.10	1.35	443	.14	1.21	.46	114	43
3760	.93	.12	1.08	442	.13	.95	.59	102	63
3740	.94	.12	1.15	443	.14	1.01	.51	107	54
3720	1.08	.11	1.31	443	.14	1.17	.56	108	51
3700	.97	.12	.97	444	.12	.85	.54	87	55
3680	1.15	.16	3.16	442	.51	2.65	.46	230	40
3660	.99	.13	.97	441	.13	.84	.58	84	58

3640	1.02	.09	1.43	442	.13	1.30	.47	127	46
3620	1.01	.10	1.43	439	.14	1.29	.48	127	47
3600	1.09	.11	1.60	440	.17	1.43	.50	131	45
3580	1.07	.10	1.60	441	.16	1.44	.49	134	45
3560	.92	.10	1.49	443	.15	1.34	.48	145	52
3540	1.01	.11	1.58	442	.17	1.41	.50	139	49
3520	.96	.10	1.51	441	.15	1.36	.44	141	45
3500	.97	.10	1.42	442	.14	1.28	.50	131	51
3480	1.09	.09	1.60	439	.15	1.45	.50	133	45
3460	1.20	.10	1.73	442	.17	1.56	.97	130	80
3440	1.37	.10	2.05	440	.21	1.84	.72	134	52
3420	1.27	.10	2.02	441	.21	1.81	.65	142	51
3400	1.25	.10	1.79	440	.18	1.61	.78	128	62
3380	1.49	.10	2.11	438	.22	1.89	1.11	126	74
3360	1.37	.09	2.22	439	.20	2.02	.70	147	51
3340	1.31	.10	2.05	441	.20	1.85	.63	141	48
3320	1.25	.11	1.83	444	.21	1.62	.70	129	56
3300	.85	.16	1.10	436	.18	.92	.61	108	71
3280	.99	.14	1.37	441	.19	1.18	.54	119	54
3260	1.17	.12	1.72	443	.20	1.52	.55	129	47
3240	1.28	.12	1.16	442	.14	1.02	.95	79	74
3220	1.06	.14	1.42	442	.20	1.22	.60	115	56
3200	1.08	.16	1.23	440	.20	1.03	.64	95	59
3180	1.12	.11	1.55	440	.17	1.38	.48	123	42
3160	1.38	.11	2.01	441	.23	1.78	.64	128	46
3140	2.38	.08	2.90	441	.24	2.66	.83	111	34
3120	1.43	.11	1.91	441	.21	1.70	.59	118	41
3100	1.48	.10	2.32	441	.24	2.08	.63	140	42
3080	1.42	.10	2.10	443	.20	1.90	.61	133	42
3060	1.43	.09	2.38	444	.21	2.17	.61	151	42
3040	1.39	.12	1.56	445	.19	1.37	.48	98	34
3020	1.43	.10	1.92	451	.19	1.73	.49	120	34
3000	1.46	.12	1.38	447	.16	1.22	.49	83	33
2980	1.52	.08	2.00	445	.16	1.84	.38	121	25
2960	1.67	.07	1.92	444	.14	1.78	.49	106	29
2940	1.58	.09	1.52	446	.13	1.39	.64	87	40
2920	1.92	.09	2.85	440	.26	2.59	.51	134	26
2900	1.59	.12	1.41	444	.17	1.24	.67	77	42
2880	2.09	.10	2.34	442	.24	2.10	.68	100	32
2860	1.93	.09	2.23	442	.21	2.02	.57	104	29
2840	1.76	.09	2.19	443	.19	2.00	.61	113	34
2820	1.97	.11	2.93	442	.33	2.60	.49	131	24
2800	2.02	.08	2.47	439	.19	2.28	.64	112	31
2780	2.27	.09	3.25	440	.28	2.97	.64	130	28
2760	2.08	.09	2.81	441	.25	2.56	.60	123	28
2740	2.08	.11	2.82	440	.31	2.51	.60	120	28
2720	1.90	.09	2.78	439	.24	2.54	.49	133	25
2700	2.00	.09	3.41	439	.31	3.10	.58	155	29
2680	2.32	.08	3.22	436	.27	2.95	.56	127	24
2660	1.85	.11	2.75	437	.29	2.46	.54	132	29
2640	2.09	.09	2.84	436	.26	2.58	.60	123	28
2620	1.62	.10	2.31	435	.23	2.08	.45	128	27

2600	1.35	.10	2.17	435	.22	1.95	.39	144	28
2580	1.66	.10	2.34	436	.23	2.11	.47	127	28
2560	1.29	.10	1.95	434	.20	1.75	.39	135	30
2540	3.32	.08	4.26	435	.34	3.92	.76	118	22
2520	1.36	.10	2.01	435	.21	1.80	.38	132	27
2500	1.21	.11	1.92	435	.22	1.70	.34	140	28
2480	1.31	.13	2.81	424	.36	2.45	.49	187	37
2460	1.68	.08	2.34	433	.18	2.16	.40	128	23
2440	1.38	.08	2.06	435	.16	1.90	.36	137	26
2420	1.28	.11	1.89	436	.20	1.69	.34	132	26
2400	1.40	.11	2.19	439	.23	1.96	.34	140	24
2380	1.75	.08	2.73	441	.21	2.52	.45	144	25
2360	2.36	.09	2.70	439	.24	2.46	.50	104	21
2340	1.50	.09	2.02	438	.18	1.84	.37	122	24
2320	.99	.10	1.51	441	.15	1.36	.33	137	33
2300	1.79	.09	2.35	439	.22	2.13	.47	118	26
2280	1.86	.08	2.21	439	.18	2.03	.47	109	25
2260	1.41	.08	1.75	438	.14	1.61	.38	114	26
2240	1.87	.05	2.25	439	.12	2.13	.57	113	30
2220	2.63	.06	4.87	427	.29	4.58	.58	174	22
2200	1.26	.11	2.00	441	.21	1.79	.42	142	33
2180	1.51	.08	1.82	441	.14	1.68	.48	111	31
2160	1.52	.06	1.58	439	.10	1.48	.38	97	25
2140	1.37	.07	1.64	441	.12	1.52	.43	110	31
2120	1.93	.06	2.49	441	.15	2.34	.46	121	23
2100	1.85	.10	2.59	442	.25	2.34	.65	126	35
2080	1.45	.06	1.97	439	.12	1.85	.38	127	26
2060	1.50	.07	2.02	441	.15	1.87	.35	124	23
2040	1.84	.09	2.10	439	.18	1.92	.44	104	23
2020	1.27	.09	1.48	439	.13	1.35	.61	106	48
2000	1.72	.05	.86	439	.04	.82	.60	47	34
1980	1.23	.10	1.44	440	.15	1.29	.85	104	69
1960	1.36	.11	1.40	441	.15	1.25	1.24	91	91
1940	1.74	.08	2.05	439	.17	1.88	1.04	108	59
1920	1.39	.11	1.65	440	.18	1.47	.71	105	51
1900	.99	.18	1.00	441	.18	.82	1.20	82	121
1880	.84	.09	.35	445	.03	.32	1.22	38	145
1860	1.03	.10	.77	444	.08	.69	1.16	66	112
1840	1.63	.09	1.37	443	.12	1.25	.81	76	49
1820	1.73	.04	.89	438	.04	.85	.67	49	38
1800	1.32	.15	.93	447	.14	.79	2.24	59	169
1780	1.54	.10	1.46	443	.14	1.32	.85	85	55
1760	1.22	.10	.77	446	.08	.69	.79	56	64
1740	3.01	.11	2.79	441	.30	2.49	4.38	82	145
1720	2.00	.12	1.43	440	.17	1.26	1.57	63	78
1700	2.49	.15	2.29	439	.34	1.95	1.24	78	49
1680	1.76	.19	2.68	436	.51	2.17	1.13	123	64
1660	1.58	.12	1.61	443	.20	1.41	.95	89	60
1640	.87	.15	.78	439	.12	.66	1.42	75	163
1620	4.60	.05	4.80	442	.24	4.56	1.46	99	31
1600	2.26	.07	1.79	439	.13	1.66	1.19	73	52
1580	.92	.17	.54	441	.09	.45	1.13	48	122

1560	1.31	.21	1.05	441	.22	.83	1.10	63	83
1540	1.26	.15	.88	443	.13	.75	1.01	59	80
1520	1.40	.11	1.19	439	.13	1.06	.99	75	70
1500	.88	.16	.49	439	.08	.41	1.45	46	164
1480	1.12	.10	.77	438	.08	.69	1.43	61	127
1460	1.50	.09	1.31	439	.12	1.19	1.32	79	88
1440	1.56	.14	1.05	440	.15	.90	1.23	57	78
1420	1.23	.16	1.05	443	.17	.88	.94	71	76
1400	1.22	.24	1.57	426	.37	1.20	.82	98	67
1380	.98	.16	1.09	435	.17	.92	.78	93	79
1360	.82	.12	.77	438	.09	.68	.68	82	82
1340	1.23	.14	.57	446	.08	.49	.86	39	69
1320	1.38	.15	.86	442	.13	.73	1.28	52	92
1300	1.06	.19	.36	437	.07	.29	1.02	27	96
1280	1.07	.14	.57	440	.08	.49	2.13	45	199
1260	.59	.20	.44	441	.09	.35	.81	59	137
1240	1.23	.07	.76	440	.05	.71	1.88	57	152
1220	2.16	.07	1.67	434	.11	1.56	1.14	72	52
1200	.68	.24	.33	439	.08	.25	2.46	36	361
1180	.44	.25	.16	434	.04	.12	1.55	27	352
1160	.70	.22	.40	441	.09	.31	.36	44	51
1140	.80	.21	.52	445	.11	.41	.45	51	56
1120	1.00	.24	.46	440	.11	.35	1.96	35	196
1100	1.51	.17	.90	442	.15	.75	.98	49	64
1080	.66	.23	.31	444	.07	.24	.99	36	150
1060	.61	.50	.04	393	.02	.02	1.00	3	163
1040	.72	.24	.25	443	.06	.19	1.07	26	148
1020	.71	.22	.40	444	.09	.31	1.19	43	167
1000	1.00	.17	.54	439	.09	.45	3.37	45	337
980	1.05	.17	.59	441	.10	.49	2.22	46	211
960	1.65	.10	1.29	436	.13	1.16	.81	70	49
940	.85	.14	.66	441	.09	.57	1.18	67	138
920	4.38	.05	4.66	434	.22	4.44	1.48	101	33
900	.72	.23	.39	441	.09	.30	.51	41	70
900	.01	0.00	.01	0	0.00	.01	.09	100	900
880	.90	.20	.44	435	.09	.35	3.05	38	338
860	.91	.20	.55	436	.11	.44	1.45	48	159
840	.54	.34	.35	428	.12	.23	1.85	42	342
820	3.27	.07	1.63	430	.11	1.52	1.49	46	45
800	2.20	.07	2.18	424	.15	2.03	1.22	92	55
780	.75	.17	.35	441	.06	.29	.57	38	76
760	.98	.17	.35	438	.06	.29	2.21	29	225
740	.57	.19	.27	440	.05	.22	1.77	38	310
720	.91	.39	.23	437	.09	.14	1.04	15	114
700	.84	.19	.48	439	.09	.39	.74	46	88
680	.41	.27	.15	444	.04	.11	1.21	26	295
660	.98	.23	.44	434	.10	.34	2.36	34	240
640	1.69	.10	.93	435	.09	.84	1.26	49	74
620	.75	.22	.32	438	.07	.25	.98	33	130
600	1.22	.15	.93	436	.14	.79	1.05	64	86
580	1.12	.17	.60	437	.10	.50	.76	44	67
560	.80	.26	.27	437	.07	.20	1.33	25	166

540	.83	.27	.26	440	.07	.19	1.63	22	196
520	2.08	.03	1.75	429	.06	1.69	.76	81	36
500	.51	.23	.22	450	.05	.17	.59	33	115
480	.96	.15	.40	445	.06	.34	.62	35	64
460	1.32	.20	.61	441	.12	.49	1.65	37	125
440	3.51	.10	2.32	424	.23	2.09	3.10	59	88
420	.73	.23	.26	436	.06	.20	.58	27	79
400	2.77	.05	.75	439	.04	.71	2.61	25	94
380	1.75	.15	.52	440	.08	.44	1.61	25	92
360	.79	.80	.05	425	.04	.01	2.02	1	255
350	1.09	.23	1.78	433	.41	1.37	.13	125	11
340	.73	.28	.29	441	.08	.21	1.57	28	215
340	.81	.16	.83	432	.13	.70	.15	86	18
330	.60	.20	.69	434	.14	.55	.11	91	18
320	.92	.22	.23	443	.05	.18	2.47	19	268
300	.51	.50	.08	431	.04	.04	.18	7	35
280	.74	.29	.28	444	.08	.20	.47	27	63
260	.70	.35	.20	404	.07	.13	1.21	18	172
240	.70	.27	.15	410	.04	.11	.98	15	140
220	.47	.15	.33	415	.05	.28	.64	59	136
200	.78	.09	.33	436	.03	.30	1.37	38	175
180	.68	.08	.24	428	.02	.22	1.19	32	175
160	.64	.33	.09	445	.03	.06	2.08	9	325
140	1.08	.23	.22	439	.05	.17	2.37	15	219
120	.38	.43	.07	340	.03	.04	3.46	10	910
100	.72	.33	.03	338	.01	.02	1.55	2	215
80	.42	0.00	.01	0	0.00	.01	2.66	2	633
60	.48	.50	.06	320	.03	.03	1.08	6	225
40	.30	.67	.06	368	.04	.02	.33	6	110
20	.25	.75	.04	442	.03	.01	.66	4	264

Chevron SOBC WM E. Porcupine YT F-18

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
840F	1.38	.53	3.40	383	1.81	1.59	.97	115	70
870F	1.02	.23	.35	445	.08	.27	1.11	26	108
900F	.67	.40	.25	434	.10	.15	.64	22	95
940	.58	.36	.22	446	.08	.14	.81	24	139
970	.78	.77	1.37	437	1.06	.31	.82	39	105
1000	.66	.57	.30	452	.17	.13	.48	19	72
1040	.47	.57	.14	382	.08	.06	.25	12	53
1070	.60	0.00	.07	386	0.00	.07	.66	11	110
1100	.62	0.00	.06	424	0.00	.06	.52	9	83
1140	.34	0.00	.01	301	0.00	.01	.19	2	55
1170	.56	0.00	.06	463	0.00	.06	.25	10	44
1200	1.08	.03	.29	451	.01	.28	.61	25	56
1240	.87	.11	.19	459	.02	.17	.50	19	57
1270	.57	0.00	.07	467	0.00	.07	.53	12	92
1300	.59	.10	.10	448	.01	.09	.27	15	45
1340	.53	0.00	.09	447	0.00	.09	.24	16	45
1370	.71	.07	.14	451	.01	.13	.89	18	125
1400	.83	.22	.27	443	.06	.21	.67	25	80
1440	2.46	.02	1.25	433	.03	1.22	.48	49	19
1470	1.03	.08	.40	440	.03	.37	.43	35	41
1500	3.58	.04	1.62	437	.06	1.56	1.09	43	30
1540	1.05	.11	.35	436	.04	.31	.69	29	65
1570	.92	.06	.33	444	.02	.31	.63	33	68
1600	.84	.04	.26	448	.01	.25	.61	29	72
1640	.80	0.00	.26	446	0.00	.26	.69	32	86
1670	.79	.05	.21	443	.01	.20	.94	25	118
1700	.71	0.00	.19	445	0.00	.19	.50	26	70
1740	.62	.05	.19	447	.01	.18	.35	29	56
1770	.90	.05	.43	447	.02	.41	.57	45	63
1800	.94	0.00	.38	443	0.00	.38	.56	40	59
1840	.91	.04	.45	443	.02	.43	.53	47	58
1870	1.24	.02	.58	442	.01	.57	1.02	45	82
1900	.73	.03	.39	441	.01	.38	.44	52	60
1940	.89	.03	.36	446	.01	.35	.92	39	103
1970	1.22	.05	.44	444	.02	.42	.85	34	69
2000	.74	0.00	.08	444	0.00	.08	.41	10	55
2040	1.33	.03	.92	438	.03	.89	1.10	66	82
2070	.78	.11	.35	443	.04	.31	.60	39	76
2100	.44	.16	.31	441	.05	.26	.64	59	145
2140	.79	.01	.73	442	.01	.72	.67	91	84
2170	.82	.03	.37	446	.01	.36	.45	43	54
2200	.57	0.00	.24	445	0.00	.24	.58	42	101
2240	1.28	.03	.64	442	.02	.62	.46	48	35
2270	5.22	.02	3.74	436	.06	3.68	.98	70	18
2300	1.77	.01	2.18	429	.03	2.15	1.04	121	58
2340	1.01	.03	.40	442	.01	.39	.73	38	72
2370	.01	0.00	.01	396	0.00	.01	.01	100	100
2400	1.85	.06	1.66	433	.10	1.56	.37	84	19
2440	1.26	.07	1.03	438	.07	.96	1.53	76	121

2470	1.11	.09	.70	438	.06	.64	1.17	57	105
2500	1.05	.15	.61	441	.09	.52	.58	49	55
2540	.81	.08	.39	441	.03	.36	.78	44	96
2570	1.10	.17	.06	439	.01	.05	.05	4	4
2600	.85	.05	.59	440	.03	.56	.88	65	103
2640	.57	.50	.54	442	.27	.27	.43	47	75
2670	1.00	.17	.60	440	.10	.50	.82	50	82
2700	.92	.05	.43	440	.02	.41	.72	44	78
2730	1.29	.06	.89	440	.05	.84	1.19	65	92
2760	2.09	.04	1.56	442	.07	1.49	1.62	71	77
2790	1.42	.05	.94	441	.05	.89	1.35	62	95
2820	1.41	.04	1.07	438	.04	1.03	1.66	73	117
2850	1.93	.05	1.84	438	.09	1.75	1.63	90	84
2880	1.11	.09	.70	441	.06	.64	1.28	57	115
2910	1.26	.14	1.04	440	.15	.89	1.83	70	145
2940	1.50	.31	2.46	427	.76	1.70	2.27	113	151
2970	2.35	.04	1.75	437	.07	1.68	1.85	71	78
3000	2.40	.07	2.19	439	.16	2.03	1.43	84	59
3030	1.69	.05	1.78	438	.09	1.69	1.39	100	82
3060	1.57	.08	1.54	443	.12	1.42	1.49	90	94
3090	1.69	.07	1.56	441	.11	1.45	.73	85	43
3120	4.07	.06	4.29	439	.26	4.03	1.48	99	36
3150	2.75	.04	2.87	438	.12	2.75	.95	100	34
3180	1.53	.11	1.22	440	.13	1.09	1.71	71	111
3210	1.56	.09	1.41	444	.12	1.29	1.42	82	91
3270	1.60	.08	1.78	441	.14	1.64	.95	102	59
3300	2.40	.07	2.11	440	.15	1.96	1.32	81	55
3330	1.57	.08	1.39	441	.11	1.28	.86	81	54
3360	1.66	.07	1.38	439	.09	1.29	.51	77	30
3390	5.41	.03	6.77	435	.19	6.58	1.06	121	19
3420	1.57	.06	1.95	440	.11	1.84	.79	117	50
3450	1.00	.06	.88	440	.05	.83	1.03	83	103
3480	1.51	.08	1.70	441	.13	1.57	1.38	103	91
3510	1.92	.07	2.16	441	.16	2.00	1.14	104	59
3540	1.81	.07	1.96	442	.13	1.83	1.03	101	56
3570	.93	.09	1.09	441	.10	.99	.70	106	75
3600	1.31	.08	1.65	437	.13	1.52	.67	116	51
3630	1.79	.06	2.12	441	.12	2.00	1.10	111	61
3660	1.99	.05	2.61	438	.14	2.47	.80	124	40
3690	1.53	.07	1.66	443	.11	1.55	.98	101	64
3720	1.60	.09	1.51	436	.13	1.38	2.01	86	125
3750	1.47	.06	1.89	442	.11	1.78	.93	121	63
3780	1.45	.08	2.03	435	.16	1.87	1.53	128	105
3810	2.45	.04	3.16	438	.13	3.03	1.25	123	51
3840	1.15	.09	1.58	438	.14	1.44	.84	125	73
3870	.91	.11	1.21	440	.13	1.08	.42	118	46
3900	1.70	.10	2.86	439	.28	2.58	.63	151	37
3930	1.04	.12	1.57	440	.19	1.38	.41	132	39
3960	1.25	.11	2.04	439	.22	1.82	.41	145	32
3990	1.64	.08	2.58	441	.21	2.37	.87	144	53
4020	1.37	.09	1.74	441	.16	1.58	1.00	115	72
4050	1.14	.09	1.30	441	.12	1.18	.69	103	60

4080	1.96	.07	2.22	437	.16	2.06	1.03	105	52
4110	1.38	.09	2.35	431	.20	2.15	.67	155	48
4140	1.62	.12	2.55	438	.31	2.24	.70	138	43
4170	2.15	.14	2.93	437	.42	2.51	1.06	116	49
4200	2.58	.09	3.79	439	.33	3.46	1.01	134	39
4230	2.51	.13	4.01	439	.53	3.48	.86	138	34
4260	2.23	.11	4.75	438	.54	4.21	1.03	188	46
4290	2.36	.12	3.71	438	.45	3.26	.73	138	30
4320	1.06	.14	3.27	440	.46	2.81	.92	265	86
4350	2.24	.17	3.91	439	.65	3.26	.67	145	29
4380	1.80	.13	2.71	439	.35	2.36	.64	131	35
4410	2.27	.12	3.36	440	.41	2.95	.59	129	25
4440	2.14	.11	2.89	441	.31	2.58	.73	120	34
4470	1.78	.10	2.89	443	.28	2.61	.56	146	31
4500	2.30	.09	2.70	443	.24	2.46	.90	106	39
4530	3.59	.26	7.78	439	1.99	5.79	3.15	161	87
4560	1.78	.10	2.61	445	.26	2.35	.49	132	27
4590	1.87	.08	2.69	441	.22	2.47	.40	132	21
4620	1.68	.12	2.77	442	.33	2.44	.33	145	19
4650	1.81	.16	2.51	439	.40	2.11	.17	116	9
4680	2.01	.18	2.96	436	.54	2.42	.22	120	10
4710	1.93	.11	2.29	439	.26	2.03	.31	105	16
4740	1.73	.10	1.55	434	.16	1.39	.22	80	12
4770	1.68	.13	1.66	432	.21	1.45	.41	86	24
4800	1.88	.14	2.53	436	.36	2.17	.21	115	11
4830	1.54	.13	1.94	434	.25	1.69	.21	109	13
4890	1.80	.12	2.11	433	.25	1.86	.18	103	9
4920	1.38	.11	1.33	439	.14	1.19	.72	86	52
4950	1.93	.11	2.64	435	.28	2.36	.13	122	6
4980	1.71	.10	2.08	435	.21	1.87	.16	109	9
5010	1.52	.11	2.03	439	.22	1.81	.16	119	10
5040	1.55	.11	2.20	439	.24	1.96	.13	126	8
5070	1.34	.11	1.72	438	.19	1.53	.28	114	20
5100	1.89	.04	1.23	436	.05	1.18	.65	62	34
5130	1.33	.13	1.84	440	.24	1.60	.14	120	10
5160	1.27	.15	1.79	437	.27	1.52	.13	119	10
5190	1.46	.12	2.44	438	.30	2.14	.19	146	13
5220	2.23	.12	4.19	436	.52	3.67	.50	164	22
5250	1.18	.33	2.35	438	.78	1.57	.26	133	22
5280	1.46	.27	2.95	439	.79	2.16	.18	147	12
5310	1.55	.19	2.42	437	.45	1.97	.14	127	9
5340	1.54	.16	2.57	438	.40	2.17	.27	140	17
5370	1.13	.20	1.79	437	.36	1.43	.20	126	17
5400	1.93	.06	1.54	436	.10	1.44	.68	74	35
5430	1.45	.15	1.77	439	.27	1.50	.56	103	38
5460	1.61	.11	2.18	438	.25	1.93	.24	119	14
5490	1.22	.13	1.86	440	.24	1.62	.13	132	10
5520	1.59	.11	2.05	438	.22	1.83	.27	115	16
5550	1.40	.13	2.06	439	.27	1.79	.20	127	14
5580	1.29	.14	1.66	438	.24	1.42	.25	110	19
5610	1.35	.11	2.02	440	.23	1.79	.49	132	36
5640	1.51	.14	1.95	439	.27	1.68	.45	111	29

5670	1.54	.11	2.21	439	.24	1.97	.48	127	31
5700	1.80	.12	2.42	440	.28	2.14	.43	118	23
5730	1.05	.17	1.27	439	.22	1.05	.25	100	23
5760	1.10	.16	1.32	442	.21	1.11	.28	100	25
5850	1.28	.13	1.59	440	.20	1.39	.32	108	25
5910	1.11	.14	1.46	437	.20	1.26	.16	113	14
5970	2.98	.10	5.34	436	.52	4.82	.30	161	10
6030	1.53	.14	2.04	439	.28	1.76	.33	115	21
6060	2.01	.10	3.41	439	.34	3.07	.31	152	15
6090	1.47	.11	1.76	439	.20	1.56	.22	106	14
6120	1.32	.13	1.50	441	.20	1.30	.62	98	46
6150	1.29	.14	1.27	439	.18	1.09	.78	84	60
6180	2.10	.11	4.18	444	.46	3.72	.23	177	10
6210	1.58	.12	2.67	438	.31	2.36	.55	149	34
6240	1.32	.20	2.28	445	.45	1.83	.65	138	49
6270	.96	.28	1.77	442	.49	1.28	.24	133	25
6300	.79	.30	1.48	444	.44	1.04	.21	131	26
6330	.77	.37	1.64	444	.61	1.03	.19	133	24
6360	.88	.41	1.98	447	.82	1.16	.30	131	34
6390	1.24	.30	2.09	448	.63	1.46	.26	117	20
6420	1.37	.28	2.48	445	.70	1.78	.29	129	21
6450	.63	.39	1.46	444	.57	.89	.23	141	36
6480	.45	.44	.96	450	.42	.54	.20	120	44
6510	.66	.49	1.85	444	.91	.94	.23	142	34
6540	.80	.33	1.77	445	.58	1.19	.23	148	28
6570	.56	.40	1.59	442	.64	.95	.24	169	42
6600	.40	.46	1.12	445	.51	.61	.20	152	50
6630	.22	.49	.67	446	.33	.34	.15	154	68
6660	.41	.31	1.66	441	.52	1.14	.18	278	43
6690	.26	.50	.76	440	.38	.38	.19	146	73
6720	.26	.48	.71	449	.34	.37	.20	142	76

Socony Mobil WM South Tuttle YT N-05

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
7980F	.11	1.00	.04	0	.04	0.00	.24	0	218
7960F	.31	.67	.24	362	.16	.08	.22	25	70
7940	.12	1.00	.11	0	.11	0.00	.25	0	208
7920	.12	.71	.14	441	.10	.04	.29	33	241
7900	.13	.75	.08	333	.06	.02	.22	15	169
7880	.11	.83	.12	0	.10	.02	.24	18	218
7860	.01	0.00	.01	0	0.00	.01	.01	100	100
7840	.12	.80	.05	0	.04	.01	.18	8	150
7820	.14	1.00	.16	0	.16	0.00	.29	0	207
7800	.15	.87	.08	0	.07	.01	.17	6	113
7780	.12	.86	.07	0	.06	.01	.20	8	166
7760	.06	1.00	.05	0	.05	0.00	.18	0	300
7740	.08	1.00	.05	0	.05	0.00	.17	0	212
7720	.11	.89	.09	0	.08	.01	.16	9	145
7700	.09	1.00	.06	0	.06	0.00	.23	0	255
7680	.10	.76	.17	403	.13	.04	.27	40	270
7660	.17	.89	.09	0	.08	.01	.25	5	147
7640	.16	1.00	.05	0	.05	0.00	.16	0	100
7620	.13	1.00	.03	0	.03	0.00	.21	0	161
7600	.14	.86	.07	313	.06	.01	.19	7	135
7580	.12	1.00	.06	0	.06	0.00	.17	0	141
7560	.12	1.00	.04	0	.04	0.00	.20	0	166
7540	.34	.77	.13	0	.10	.03	.24	8	70
7520	.17	.83	.06	0	.05	.01	.24	5	141
7500	.21	.67	.09	348	.06	.03	.25	14	119
7480	.25	.35	.17	424	.06	.11	.22	44	88
7460	.15	.70	.10	433	.07	.03	.23	20	153
7440	.17	.82	.11	361	.09	.02	.26	11	152
7420	.38	.14	.57	427	.08	.49	.23	128	60
7400	.21	.91	.11	440	.10	.01	.18	4	85
7380	.22	.91	.11	363	.10	.01	.21	4	95
7360	.08	1.00	.03	0	.03	0.00	.20	0	250
7340	.07	1.00	.03	0	.03	0.00	.18	0	257
7320	.12	.71	.14	350	.10	.04	.24	33	200
7300	.12	.80	.05	304	.04	.01	.23	8	191
7280	.10	1.00	.05	0	.05	0.00	.20	0	200
7260	.11	.75	.04	331	.03	.01	.22	9	200
7240	.79	.03	2.98	428	.08	2.90	.38	367	48
7220	.23	.50	.22	422	.11	.11	.32	47	139
7200	1.11	.02	5.29	426	.10	5.19	.54	467	48
7180	.01	.60	.10	426	.06	.04	.41	4004	100
7140	.14	.29	.28	429	.08	.20	.29	142	207
7120	.08	1.00	.06	0	.06	0.00	.20	0	250
7100	.23	.17	.60	430	.10	.50	.26	217	113
7080	.16	.41	.39	427	.16	.23	.44	143	275
7060	.09	1.00	.08	0	.08	0.00	.26	0	288
7040	.08	.57	.07	372	.04	.03	.21	37	262
7020	.10	.62	.13	427	.08	.05	.25	50	250
7000	.08	.89	.09	364	.08	.01	.19	12	237

6960	.25	.31	.39	424	.12	.27	.16	108	64
6940	.05	.83	.06	428	.05	.01	.15	20	300
6920	.07	.90	.10	367	.09	.01	.17	14	242
6900	.09	.86	.14	358	.12	.02	.19	22	211
6880	.01	1.00	.08	0	.08	0.00	.19	0	1900
6860	.08	.87	.08	312	.07	.01	.16	12	200
6840	.01	.83	.06	347	.05	.01	.16	100	1600
6820	.10	.36	.25	426	.09	.16	.21	160	210
6800	.05	1.00	.09	0	.09	0.00	.19	0	380
6780	.06	.85	.13	359	.11	.02	.17	33	283
6760	.07	.63	.19	430	.12	.07	.20	100	285
6740	.08	.43	.21	428	.09	.12	.16	150	200
6720	.12	.71	.21	433	.15	.06	.29	50	241
6700	.15	.87	.15	306	.13	.02	.22	13	146
6680	.20	.52	.27	429	.14	.13	.23	65	115
6660	.20	.68	.19	356	.13	.06	.23	30	115
6640	.18	.68	.22	306	.15	.07	.19	38	105
6620	.13	0.00	.01	0	0.00	.01	.21	7	161
6600	.15	.43	.28	428	.12	.16	.26	106	173
6580	.15	.65	.20	403	.13	.07	.27	46	180
6560	.17	.55	.22	425	.12	.10	.15	58	88
6540	.41	0.00	.01	0	0.00	.01	.28	2	68
6520	.19	.41	.27	408	.11	.16	.34	84	178
6500	.22	.43	.49	399	.21	.28	.40	127	181
6480	1.12	.04	5.92	404	.26	5.66	.67	505	59
6460	.13	.70	.23	407	.16	.07	.49	53	376
6440	.14	.42	.26	402	.11	.15	.33	107	235
6420	.39	.57	.35	409	.20	.15	.38	38	97
6400	.14	.47	.15	403	.07	.08	.33	57	235
6380	.14	.60	.25	410	.15	.10	.37	71	264
6360	.18	.63	.32	377	.20	.12	.32	66	177
6340	.14	.43	.28	402	.12	.16	.42	114	300
6320	.10	.53	.19	404	.10	.09	.28	90	280
6300	.15	.60	.15	413	.09	.06	.32	40	213
6280	.43	.15	1.37	404	.20	1.17	.46	272	106
6260	.51	.65	.52	417	.34	.18	.50	35	98
6240	.29	.28	.57	402	.16	.41	.31	141	106
6220	.18	.40	.30	400	.12	.18	.41	100	227
6200	.18	.55	.22	406	.12	.10	.35	55	194
6180	.15	.27	.22	400	.06	.16	.25	106	166
6160	.31	.57	.47	391	.27	.20	.43	64	138
6140	.25	.46	.46	399	.21	.25	.44	100	176
6120	.27	.59	.27	409	.16	.11	.40	40	148
6100	.19	.69	.32	408	.22	.10	.40	52	210
6080	.26	.58	.26	407	.15	.11	.38	42	146
6060	.48	.58	.36	438	.21	.15	.40	31	83
6040	.20	.74	.23	373	.17	.06	.28	30	140
6020	.23	.63	.30	407	.19	.11	.35	47	152
6000	.57	.06	2.44	402	.14	2.30	.55	403	96
5980	.32	.61	.28	404	.17	.11	.34	34	106
5960	.15	.80	.10	367	.08	.02	.37	13	246
5940	.17	.58	.31	404	.18	.13	.39	76	229

5920	.24	.28	.50	400	.14	.36	.43	150	179
5900	.25	.32	.38	401	.12	.26	.36	104	144
5880	.15	.67	.18	406	.12	.06	.45	40	300
5860	.21	.44	.34	401	.15	.19	.41	90	195
5840	.18	.55	.20	404	.11	.09	.42	50	233
5820	.12	.78	.09	414	.07	.02	.34	16	283
5800	1.47	.02	7.58	401	.16	7.42	.79	504	53
5780	.24	.85	.13	404	.11	.02	.46	8	191
5760	.09	1.00	.05	0	.05	0.00	.35	0	388
5740	.14	.82	.17	410	.14	.03	.41	21	292
5720	.09	.67	.09	325	.06	.03	.37	33	411
5700	.13	.29	.28	405	.08	.20	.36	153	276
5680	.04	.83	.06	410	.05	.01	.37	25	925
5660	.01	.57	.23	402	.13	.10	.35	10003500	
5640	.01	.79	.19	409	.15	.04	.48	4004800	
5620	.01	.47	.19	403	.09	.10	.46	10004600	
5600	.01	.91	.11	409	.10	.01	.38	1003800	
5580	.02	.38	.26	404	.10	.16	.42	8002100	
5560	.08	.19	1.04	404	.20	.84	.69	1050	862
5540	.02	.64	.28	400	.18	.10	.41	5002050	
5520	.16	.89	.18	415	.16	.02	.50	12	312
5500	.09	.94	.16	341	.15	.01	.42	11	466
5480	.07	.73	.11	374	.08	.03	.48	42	685
5460	.09	.68	.28	403	.19	.09	.43	100	477
5440	.07	.80	.05	317	.04	.01	.29	14	414
5420	2.83	.02	15.64	402	.37	15.27	1.41	539	49
5400	.12	.35	.23	404	.08	.15	.70	125	583
5380	.65	.10	3.01	399	.29	2.72	1.10	418	169
5360	.28	.11	.81	404	.09	.72	.83	257	296
5340	.16	.71	.34	405	.24	.10	.84	62	525
5320	.01	.87	.16	370	.14	.02	.51	2005100	
5300	.11	.72	.25	0	.18	.07	.37	63	336
5280	.12	.52	.23	402	.12	.11	.45	91	375
5260	.33	.72	.39	394	.28	.11	.53	33	160
5240	.02	.51	.37	401	.19	.18	.52	9002600	
5220	1.06	.06	5.62	401	.32	5.30	1.16	500	109
5200	.20	.87	.16	404	.14	.02	.61	10	305
5180	.11	.71	.17	363	.12	.05	.46	45	418
5160	.09	.86	.14	315	.12	.02	.48	22	533
5140	.28	.80	2.00	384	1.61	.39	.94	139	335
5120	.03	.67	.40	401	.27	.13	.84	4332800	
5100	.37	.16	1.16	403	.19	.97	.85	262	229
5080	.33	.79	.29	407	.23	.06	.72	18	218
5060	.52	.60	.65	407	.39	.26	.68	50	130
5040	.40	.84	.43	359	.36	.07	.46	17	115
5020	.38	.75	.48	399	.36	.12	.65	31	171
5000	.69	.69	2.29	367	1.58	.71	1.13	102	163
4980	.95	.65	1.32	375	.86	.46	1.13	48	118
4960	.81	.67	.70	403	.47	.23	.85	28	104
4940	.55	.79	.33	417	.26	.07	.51	12	92
4920	.42	.72	.32	363	.23	.09	.47	21	111
4900	.56	.76	.41	337	.31	.10	.60	17	107

4880	.46	.67	.40	327	.27	.13	.52	28	113
4860	.56	.62	.58	399	.36	.22	.73	39	130
4840	.54	.49	.70	400	.34	.36	.62	66	114
4820	.68	.55	.94	401	.52	.42	.67	61	98
4800	1.06	.11	3.32	405	.38	2.94	.79	277	74
4780	.02	.68	.37	429	.25	.12	.46	6002300	
4760	.84	.16	2.37	403	.38	1.99	.76	236	90
4740	.61	.55	.73	403	.40	.33	.62	54	101
4720	1.16	.24	2.33	404	.57	1.76	.46	151	39
4700	.95	.61	.77	439	.47	.30	.43	31	45
4680	2.58	.61	1.53	423	.94	.59	.60	22	23
4660	2.34	.50	1.49	452	.75	.74	.57	31	24
4640	3.04	.53	1.96	414	1.03	.93	.76	30	25
4620	2.84	.53	2.31	407	1.23	1.08	.82	38	28
4580	2.65	.54	1.52	416	.82	.70	.67	26	25
4560	2.32	.66	2.35	338	1.55	.80	.67	34	28
4540	3.79	.43	.86	509	.37	.49	.27	12	7
4520	3.62	.51	1.31	436	.67	.64	.25	17	6
4500	2.67	.47	1.27	500	.60	.67	.20	25	7
4480	3.07	.66	.88	408	.58	.30	.32	9	10
4460	2.01	.69	1.97	376	1.36	.61	.25	30	12
4440	2.15	.78	1.48	370	1.16	.32	.29	14	13
4420	1.81	.67	2.00	361	1.35	.65	.32	35	17
4400	1.77	.68	.66	371	.45	.21	.23	11	12
4380	1.51	.74	1.32	374	.98	.34	.29	22	19
4360	1.50	.84	.37	376	.31	.06	.26	4	17
4340	2.34	.75	.48	439	.36	.12	.46	5	19
4320	1.70	.65	.69	431	.45	.24	.39	14	22
4300	.64	.63	.41	432	.26	.15	.57	23	89
4280	.73	.48	.87	358	.42	.45	.45	61	61
4260	.77	.41	1.10	359	.45	.65	.40	84	51
4240	.70	.58	.86	359	.50	.36	.43	51	61
4220	.70	.64	.53	356	.34	.19	.29	27	41
4200	.79	.59	.44	459	.26	.18	.28	22	35
4180	.66	.73	.44	447	.32	.12	.39	18	59
4160	.71	.53	.64	362	.34	.30	.30	42	42
4140	.72	.58	.79	358	.46	.33	.28	45	38
4100	.63	.55	.62	350	.34	.28	.15	44	23
4080	.73	.68	.59	393	.40	.19	.17	26	23
4060	.70	.63	.52	345	.33	.19	.16	27	22
4040	.84	.47	1.64	345	.77	.87	.24	103	28
4020	.74	.57	.63	389	.36	.27	.13	36	17
4000	.77	.49	.72	351	.35	.37	.26	48	33
3960	.61	.66	.38	449	.25	.13	.11	21	18
3940	.81	.66	.62	340	.41	.21	.09	25	11
3920	.61	0.00	.01	0	0.00	.01	.15	1	24
3900	.70	.58	.62	394	.36	.26	.15	37	21
3880	.76	.57	.70	343	.40	.30	.18	39	23
3860	.82	.49	.88	343	.43	.45	.58	54	70
3840	.68	.44	.64	346	.28	.36	.42	52	61
3820	.78	.47	.78	340	.37	.41	.54	52	69
3800	.82	.56	.61	439	.34	.27	.25	32	30

3780	.93	.43	1.13	346	.49	.64	.44	68	47
3760	.82	.34	1.32	337	.45	.87	.18	106	21
3740	.86	.49	.65	405	.32	.33	.12	38	13
3720	.67	.46	.59	411	.27	.32	.21	47	31
3700	.77	.43	.67	397	.29	.38	.19	49	24
3680	.62	.41	.64	358	.26	.38	.15	61	24
3660	.74	.46	.72	379	.33	.39	.21	52	28
3640	.61	.50	.58	415	.29	.29	.20	47	32
3620	.66	.45	.42	453	.19	.23	.16	34	24
3600	.89	.58	.55	454	.32	.23	.11	25	12
3580	.73	.57	.60	341	.34	.26	.22	35	30
3560	.63	.53	.58	386	.31	.27	.13	42	20
3540	.66	.47	.45	440	.21	.24	.12	36	18
3520	.57	.45	.44	451	.20	.24	.09	42	15
3500	.76	.43	1.36	340	.58	.78	.30	102	39
3480	.69	.46	.48	448	.22	.26	.22	37	31
3460	.73	.56	.43	484	.24	.19	.07	26	9
3440	.63	.37	.41	441	.15	.26	.18	41	28
3420	.50	.42	.45	414	.19	.26	.23	52	46
3400	.99	.61	.59	472	.36	.23	.12	23	12
3380	.02	.46	.35	445	.16	.19	.06	950	300
3360	.04	.31	.59	417	.18	.41	.07	1025	174
3340	.05	.31	.70	345	.22	.48	.35	960	700
3320	.10	.28	1.31	332	.37	.94	.22	940	220
3300	.04	.52	.54	440	.28	.26	.07	650	174
3280	.03	.38	.39	414	.15	.24	.09	800	300
3260	.04	.55	.60	435	.33	.27	.22	675	550
3240	.04	.40	.60	429	.24	.36	.01	900	25
3200	.06	.27	.77	347	.21	.56	.34	933	566
3180	.03	.35	.48	413	.17	.31	.15	1033	500
3160	.13	.30	1.62	330	.49	1.13	.30	869	230
3140	.02	.35	.34	428	.12	.22	.11	1100	550
3120	.03	.35	.43	427	.15	.28	.18	933	600
3100	.04	.40	.55	383	.22	.33	.14	825	349
3080	.03	.49	.49	403	.24	.25	.09	833	300
3060	.03	.38	.48	407	.18	.30	.06	1000	200
3040	.03	.43	.47	420	.20	.27	.09	900	300
3020	.03	.49	.41	490	.20	.21	.16	700	533
3000	.18	.36	2.25	328	.81	1.44	.46	800	255
2980	.04	.55	.53	455	.29	.24	.22	600	550
2960	.01	.48	.64	425	.31	.33	.15	33001500	
2840	.83	.48	.87	402	.42	.45	.04	54	4
2820	.68	.45	.67	418	.30	.37	.15	54	22
2800	.68	.45	.87	412	.39	.48	.08	70	11
2780	.72	.46	.82	372	.38	.44	.20	61	27
2780	.70	.33	1.44	331	.48	.96	.14	137	19
2760	.70	.45	.98	368	.44	.54	.01	77	1
2760	.68	.45	.93	336	.42	.51	.06	75	8
2740	.70	.35	.95	340	.33	.62	.07	88	9
2740	.75	.48	.67	412	.32	.35	.14	46	18
2720	.87	.46	.90	403	.41	.49	.08	56	9
2720	.65	0.00	.01	0	0.00	.01	.01	1	1

2700	.83	.35	1.05	339	.37	.68	.23	81	27
2700	.85	.52	.88	398	.46	.42	.19	49	22
2680	.76	.45	.55	487	.25	.30	.13	39	17
2660	.55	.41	.44	440	.18	.26	.21	47	38
2640	.79	.42	.62	478	.26	.36	.09	45	11
2620	.89	.35	1.21	334	.42	.79	.13	88	14
2600	.71	.44	.64	420	.28	.36	.12	50	16
2580	.79	.38	.73	447	.28	.45	.24	56	30
2560	1.12	.39	3.71	332	1.44	2.27	.79	202	70
2540	.73	.36	1.07	406	.39	.68	.13	93	17
2520	.78	.42	.74	469	.31	.43	.21	55	26
2500	.65	.35	.75	476	.26	.49	.24	75	36
2480	.78	.34	1.21	459	.41	.80	.30	102	38
2460	.73	.32	.69	478	.22	.47	.27	64	36
2440	.67	.35	.78	470	.27	.51	.22	76	32
2420	.86	.30	.92	465	.28	.64	.15	74	17
2400	.70	.32	.75	468	.24	.51	.18	72	25
2380	.50	.32	.53	471	.17	.36	.14	72	27
2360	.41	.34	.47	465	.16	.31	.13	75	31
2340	.74	.27	1.35	333	.37	.98	.23	132	31
2320	.56	.34	1.41	331	.48	.93	.54	166	96
2300	.50	.34	.58	466	.20	.38	.22	76	44
2280	.63	.37	.71	463	.26	.45	.10	71	15
2260	.71	.38	1.07	407	.41	.66	.42	92	59
2240	.64	.35	.93	465	.33	.60	.14	93	21
2220	.45	.34	1.14	335	.39	.75	.30	166	66
2200	1.05	.33	1.37	460	.45	.92	.21	87	20
2180	.67	.31	1.27	336	.39	.88	.32	131	47
2160	.54	.30	.94	404	.28	.66	.40	122	74
2140	.65	.30	1.19	370	.36	.83	.29	127	44
2120	.73	.28	1.66	330	.47	1.19	.33	163	45
2100	.57	.28	.81	467	.23	.58	.23	101	40
2080	.52	.37	.90	465	.33	.57	.32	109	61
2060	.50	.35	.75	416	.26	.49	.18	98	36
2040	.53	.34	.96	333	.33	.63	.23	118	43
2020	.55	.39	1.23	332	.48	.75	.30	136	54
2000	.54	.34	1.63	332	.56	1.07	.63	198	116
1980	.50	.41	.82	454	.34	.48	.41	96	82
1960	.53	.30	.81	398	.24	.57	.26	107	49
1940	.62	.35	.84	415	.29	.55	.13	88	20
1920	.68	.38	.85	477	.32	.53	.17	77	25
1900	.67	.34	1.04	441	.35	.69	.15	102	22
1880	.48	.37	.78	409	.29	.49	.21	102	43
1860	.55	.35	.54	474	.19	.35	.14	63	25
1840	.61	.34	.92	413	.31	.61	.17	100	27
1820	.59	.31	.75	472	.23	.52	.22	88	37
1800	.79	.31	3.11	343	.97	2.14	.52	270	65
1780	.62	.33	.79	466	.26	.53	.16	85	25
1760	.60	.42	.72	467	.30	.42	.16	70	26
1740	.60	.30	.80	470	.24	.56	.12	93	20
1720	.41	.37	.76	411	.28	.48	.18	117	43
1700	.64	.35	.84	464	.29	.55	.11	85	17

1680	.56	.33	.73	435	.24	.49	.18	87	32
1660	.80	.43	.98	459	.42	.56	.10	70	12
1640	.53	.38	.77	469	.29	.48	.23	90	43
1620	.50	.38	.88	418	.33	.55	.16	109	32
1600	.62	.34	.83	464	.28	.55	.12	88	19
1580	.46	.39	.54	465	.21	.33	.37	71	80
1560	.74	.33	.97	459	.32	.65	.13	87	17
1540	.61	.39	.70	465	.27	.43	.14	70	22
1520	.41	.39	.64	407	.25	.39	.24	95	58
1500	.37	0.00	.01	0	0.00	.01	.23	2	62
1490	.54	.34	1.05	409	.36	.69	.28	127	51
1480	.66	.38	.99	462	.38	.61	.30	92	45
1470	1.08	.32	1.81	458	.58	1.23	.22	113	20

Socony Mobil WM Ellen YT C-24

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
5400F	3.45	.58	5.30	465	3.10	2.20	.70	63	20
5390F	1.86	.39	2.94	453	1.14	1.80	.41	96	22
5380F	1.19	.16	1.78	442	.29	1.49	.50	125	42
5370	1.19	.18	2.10	446	.37	1.73	.45	145	37
5360	1.52	.17	2.12	445	.36	1.76	.51	115	33
5350	1.52	.04	.79	438	.03	.76	.66	50	43
5340	1.80	.22	2.85	443	.64	2.21	.76	122	42
5330	1.58	.16	2.18	444	.35	1.83	.64	115	40
5320	1.31	.19	2.06	443	.40	1.66	.52	126	39
5310	1.18	.20	2.04	445	.40	1.64	.44	138	37
5300	1.05	.20	1.80	443	.36	1.44	.48	137	45
5290	1.08	.22	1.98	444	.43	1.55	.45	143	41
5280	1.10	.20	1.74	447	.34	1.40	.52	127	47
5270	1.11	.20	1.69	445	.33	1.36	.47	122	42
5260	1.02	.23	1.61	444	.37	1.24	.59	121	57
5250	.96	.19	1.40	445	.27	1.13	.30	117	31
5240	.93	.21	1.49	443	.32	1.17	.45	125	48
5220	1.53	.04	.83	439	.03	.80	.72	52	47
5210	1.05	.19	1.80	443	.34	1.46	.35	139	33
5200	1.10	.20	1.91	443	.39	1.52	.50	138	45
5190	.91	.25	1.30	445	.32	.98	.36	107	39
5180	.89	.21	1.67	445	.35	1.32	.33	148	37
5170	.50	.38	.58	419	.22	.36	.20	72	40
5160	1.00	.19	1.75	443	.33	1.42	.36	142	36
5150	.99	.19	1.75	441	.33	1.42	.52	143	52
5140	.93	.18	1.35	444	.24	1.11	.57	119	61
5140	.98	.18	1.58	442	.29	1.29	.36	131	36
5130	1.00	.19	1.91	444	.37	1.54	.31	154	31
5120	.95	.19	1.60	445	.31	1.29	.34	135	35
5110	1.50	.27	6.09	440	1.64	4.45	.88	296	58
5100	.93	.19	1.75	443	.34	1.41	.45	151	48
5090	.96	.16	1.66	443	.26	1.40	.32	145	33
5080	.92	.18	1.48	443	.26	1.22	.32	132	34
5070	.88	.15	1.67	443	.25	1.42	.43	161	48
5060	1.00	.16	1.68	444	.27	1.41	.39	141	39
5050	.83	.23	1.19	441	.27	.92	.37	110	44
5040	1.04	.17	1.62	442	.28	1.34	.43	128	41
5030	1.00	.16	1.42	445	.23	1.19	.26	119	26
5020	.76	0.00	.01	0	0.00	.01	.45	1	59
5010	.99	.18	1.93	442	.34	1.59	.37	160	37
5000	.82	0.00	.01	0	0.00	.01	.25	1	30
4990	.88	.19	1.54	443	.29	1.25	.34	142	38
4980	.92	.17	1.73	442	.29	1.44	.33	156	35
4970	.93	.17	1.57	444	.26	1.31	.28	140	30
4960	1.01	.16	1.60	444	.25	1.35	.28	133	27
4950	.96	.18	1.41	443	.25	1.16	.30	120	31
4940	.93	.17	1.64	443	.28	1.36	.34	146	36
4930	1.19	.16	1.89	443	.30	1.59	.49	133	41
4920	1.07	.17	1.63	445	.27	1.36	.31	127	28

4910	1.30	.16	2.10	443	.34	1.76	.44	135	33
4900	1.03	.16	1.61	445	.26	1.35	.34	131	33
4890	1.05	.16	1.79	444	.29	1.50	.40	142	38
4880	1.23	.16	1.81	443	.29	1.52	.37	123	30
4870	1.17	.14	1.77	443	.25	1.52	.43	129	36
4860	1.33	.13	1.93	442	.26	1.67	.46	125	34
4850	1.25	.15	2.15	444	.33	1.82	.55	145	43
4840	1.16	.18	1.88	444	.33	1.55	.37	133	31
4830	1.14	0.00	.01	0	0.00	.01	.42	0	36
4820	1.27	.15	1.90	445	.29	1.61	.50	126	39
4810	1.35	.15	1.95	444	.29	1.66	.41	122	30
4800	1.25	.15	1.80	445	.27	1.53	.34	122	27
4790	1.38	.13	2.00	444	.27	1.73	.37	125	26
4780	1.24	.13	1.74	446	.22	1.52	.37	122	29
4770	1.28	.15	1.79	445	.27	1.52	.43	118	33
4760	1.15	.18	1.58	443	.28	1.30	.47	113	40
4750	1.20	.18	1.64	441	.29	1.35	.47	112	39
4740	1.24	.14	1.56	445	.22	1.34	.55	108	44
4730	1.14	.15	1.77	445	.26	1.51	.31	132	27
4720	1.25	.15	1.84	446	.27	1.57	.37	125	29
4710	1.27	.15	2.03	443	.31	1.72	.54	135	42
4700	1.21	.16	1.88	444	.31	1.57	.47	129	38
4680	1.33	.14	2.14	442	.30	1.84	.60	138	45
4670	1.31	.17	1.84	444	.31	1.53	.55	116	41
4660	1.53	.15	2.46	444	.36	2.10	.67	137	43
4650	1.62	.10	3.10	440	.32	2.78	.73	171	45
4640	2.88	.07	6.87	436	.45	6.42	1.45	222	50
4630	1.41	.15	2.28	444	.35	1.93	.66	136	46
4610	1.39	.15	2.01	442	.30	1.71	.39	123	28
4600	1.47	.15	2.20	439	.34	1.86	.42	126	28
4590	1.39	.15	1.92	441	.29	1.63	.43	117	30
4580	1.29	.14	1.69	443	.23	1.46	.27	113	20
4570	1.47	.14	1.96	441	.27	1.69	.35	114	23
4560	1.62	.12	1.98	443	.23	1.75	.39	108	24
4550	1.34	0.00	.01	0	0.00	.01	.42	0	31
4540	1.23	.15	1.49	441	.22	1.27	.33	103	26
4530	1.26	.15	1.31	441	.20	1.11	.35	88	27
4510	2.11	.05	5.02	434	.26	4.76	.44	225	20
4500	1.87	.13	2.54	442	.34	2.20	.50	117	26
4470	2.09	.38	3.45	440	1.31	2.14	.61	102	29
4460	1.70	.16	1.95	440	.31	1.64	.50	96	29
4450	1.68	.13	2.02	442	.27	1.75	.51	104	30
4440	1.63	.14	1.72	442	.24	1.48	.43	90	26
4430	1.55	.14	1.91	441	.26	1.65	.31	106	20
4420	1.53	.13	1.80	441	.24	1.56	.37	101	24
4410	1.57	.16	1.67	441	.26	1.41	.34	89	21
4400	1.48	.13	1.80	444	.24	1.56	.31	105	20
4390	1.77	.14	2.03	442	.28	1.75	.43	98	24
4380	1.30	.12	1.65	443	.19	1.46	.35	112	26
4370	1.58	.14	1.82	444	.25	1.57	.41	99	25
4360	1.45	.14	1.76	443	.24	1.52	.34	104	23
4350	1.33	.14	1.61	443	.22	1.39	.30	104	22

4340	1.44	.15	1.61	440	.24	1.37	.37	95	25
4330	1.37	.15	1.49	440	.22	1.27	.35	92	25
4320	1.42	.14	1.93	441	.27	1.66	.50	116	35
4310	1.38	.13	1.71	444	.23	1.48	.30	107	21
4300	1.28	.15	1.56	441	.23	1.33	.37	103	28
4290	1.42	.15	1.92	441	.29	1.63	.36	114	25
4280	1.30	.13	1.65	443	.22	1.43	.36	110	27
4270	1.45	.13	1.80	442	.23	1.57	.34	108	23
4260	1.31	.16	1.72	441	.28	1.44	.47	109	35
4250	1.32	.15	1.79	442	.27	1.52	.32	115	24
4240	1.34	.15	1.71	443	.26	1.45	.31	108	23
4230	1.43	.12	1.90	443	.22	1.68	.41	117	28
4210	1.54	.18	2.37	441	.42	1.95	.43	126	27
4200	1.56	.15	2.17	441	.32	1.85	.35	118	22
4190	1.69	.13	2.00	442	.27	1.73	.40	102	23
4180	1.56	.12	1.87	443	.23	1.64	.31	105	19
4170	1.48	.15	1.78	442	.26	1.52	.38	102	25
4160	1.53	.15	1.85	441	.27	1.58	.42	103	27
4150	2.04	.09	2.78	439	.26	2.52	.49	123	24
4140	1.66	.11	2.10	440	.24	1.86	.36	112	21
4130	2.02	.07	3.61	438	.27	3.34	.44	165	21
4120	1.44	.11	2.10	441	.23	1.87	.34	129	23
4110	1.48	.10	2.23	440	.22	2.01	.30	135	20
4100	1.64	.12	2.71	438	.33	2.38	.33	145	20
4090	12.23	.01	85.54	435	.76	84.78	1.20	693	9
4080	9.78	.01	69.84	434	.62	69.22	1.24	707	12
4070	8.68	.01	60.53	432	.46	60.07	1.13	692	13
4060	3.01	.11	3.30	429	.35	2.95	1.80	98	59
4050	2.36	.10	2.63	434	.26	2.37	1.15	100	48
4040	1.36	.13	1.65	439	.21	1.44	.45	105	33
4030	1.43	.14	1.81	437	.25	1.56	.50	109	34
4020	1.22	.15	1.45	436	.22	1.23	.46	100	37
4010	1.26	.14	1.57	435	.22	1.35	.41	107	32
4000	1.43	.14	1.89	435	.27	1.62	.46	113	32
3990	1.48	.15	1.82	435	.27	1.55	.50	104	33
3980	1.26	.14	1.59	437	.22	1.37	.36	108	28
3970	1.28	.15	1.87	434	.28	1.59	.53	124	41
3960	1.30	.15	1.94	434	.29	1.65	.53	126	40
3950	1.24	.14	1.73	437	.24	1.49	.42	120	33
3940	1.42	.12	1.92	437	.23	1.69	.53	119	37
3930	1.18	.14	1.62	435	.23	1.39	.41	117	34
3920	1.16	.14	1.44	436	.20	1.24	.45	106	38
3910	.95	.13	1.81	436	.23	1.58	.39	166	41
3900	1.20	.14	1.89	436	.26	1.63	.34	135	28
3890	1.34	.16	2.19	435	.34	1.85	.46	138	34
3880	1.46	.13	2.26	435	.30	1.96	.43	134	29
3870	1.46	.13	2.24	434	.30	1.94	.49	132	33
3860	1.51	.13	2.27	435	.29	1.98	.48	131	31
3850	1.34	.12	2.09	434	.26	1.83	.42	136	31
3840	1.40	.14	2.19	435	.31	1.88	.47	134	33
3830	1.51	.11	2.12	435	.24	1.88	.49	124	32
3820	2.24	.04	7.61	430	.32	7.29	.74	325	33

3810	1.97	.05	5.37	431	.29	5.08	.66	257	33
3800	1.65	.11	1.95	435	.22	1.73	.66	104	40
3790	1.34	.13	1.95	434	.26	1.69	.47	126	35
3780	1.53	.12	2.02	437	.24	1.78	.53	116	34
3770	1.11	.14	1.67	436	.23	1.44	.47	129	42
3760	1.19	.16	1.85	435	.29	1.56	.51	131	42
3750	1.17	.12	1.73	432	.20	1.53	.38	130	32
3740	1.49	.14	1.93	434	.27	1.66	.55	111	36
3730	1.20	.14	1.65	436	.23	1.42	.52	118	43
3720	1.05	.15	1.62	436	.24	1.38	.41	131	39
3710	1.25	.13	1.76	436	.23	1.53	.38	122	30
3700	1.49	.14	2.35	435	.33	2.02	.62	135	41
3690	1.10	.14	1.83	435	.25	1.58	.48	143	43
3680	1.07	.15	1.63	435	.25	1.38	.46	128	42
3670	1.22	.14	2.03	435	.28	1.75	.53	143	43
3660	1.14	.14	1.57	432	.22	1.35	.47	118	41
3650	2.19	.13	2.39	431	.30	2.09	.70	95	31
3640	1.18	.14	1.88	435	.26	1.62	.50	137	42
3630	2.05	.12	2.78	433	.32	2.46	.67	119	32
3620	1.33	.16	1.77	439	.28	1.49	.42	112	31
3610	1.30	.15	1.90	440	.29	1.61	.43	123	33
3600	1.34	.17	1.69	441	.29	1.40	.38	104	28
3590	2.35	.14	2.14	443	.31	1.83	.69	77	29
3580	1.57	.11	2.21	440	.25	1.96	.46	124	29
3570	1.28	.13	1.74	441	.22	1.52	.43	118	33
3560	1.52	.12	1.92	440	.23	1.69	.52	111	34
3550	1.87	.11	2.20	437	.24	1.96	.57	104	30
3540	2.03	.10	2.78	439	.28	2.50	.57	123	28
3530	3.97	.05	5.83	432	.30	5.53	2.02	139	50
3520	6.07	.02	20.25	430	.45	19.80	2.87	326	47
3510	6.49	.03	16.44	431	.44	16.00	3.34	246	51
3500	5.16	.02	18.92	431	.36	18.56	1.80	359	34
3490	6.25	.01	27.92	430	.40	27.52	1.96	440	31
3480	2.64	.08	3.72	435	.29	3.43	.97	129	36
3470	2.57	.07	3.59	437	.26	3.33	.79	129	30
3460	3.31	.07	4.36	438	.29	4.07	.99	122	29
3450	3.85	.03	11.40	433	.32	11.08	1.02	287	26
3440	3.70	.03	10.82	430	.34	10.48	.97	283	26
3430	3.97	.03	13.45	432	.37	13.08	1.09	329	27
3420	2.66	.08	4.09	435	.33	3.76	.85	141	31
3410	1.01	.07	3.31	437	.24	3.07	.75	303	74
3400	3.48	.06	7.41	431	.41	7.00	.99	201	28
3390	2.20	.11	2.23	439	.24	1.99	.80	90	36
3380	2.70	.13	2.98	438	.38	2.60	1.05	96	38
3370	3.58	.10	3.34	437	.32	3.02	1.44	84	40
3360	3.29	.08	3.52	435	.29	3.23	1.66	98	50
3350	2.35	.12	2.75	436	.34	2.41	1.12	102	47
3340	2.80	.12	3.08	437	.36	2.72	1.33	97	47
3330	2.63	.10	2.79	438	.29	2.50	.95	95	36
3320	1.82	.12	1.81	439	.21	1.60	.59	87	32
3310	1.96	.10	1.63	438	.16	1.47	.65	75	33
3300	2.09	.11	1.69	434	.19	1.50	.63	71	30

3290	2.27	.11	2.00	435	.21	1.79	.71	78	31
3280	2.32	.11	2.64	439	.30	2.34	.66	100	28
3270	2.00	.11	1.89	438	.21	1.68	.60	84	30
3260	2.07	.13	2.76	434	.37	2.39	.69	115	33
3250	2.14	.13	2.90	432	.37	2.53	.68	118	31
3240	2.02	.12	2.69	432	.32	2.37	.61	117	30
3230	1.80	.13	2.80	434	.37	2.43	.60	135	33
3220	1.41	.14	1.89	432	.26	1.63	.51	115	36
3210	1.16	.12	1.77	434	.21	1.56	.37	134	31
3200	1.87	.16	2.85	435	.47	2.38	.62	127	33
3190	1.90	.13	2.66	435	.34	2.32	.53	122	27
3180	2.13	.15	3.06	434	.45	2.61	.63	122	29
3160	1.79	.17	2.29	435	.39	1.90	.58	106	32
3150	2.10	.21	4.29	431	.92	3.37	.86	160	40
3140	2.10	.16	3.07	434	.49	2.58	.72	122	34
3130	1.96	.17	2.79	435	.48	2.31	.70	117	35
3120	1.92	.11	2.57	436	.29	2.28	.56	118	29
3110	1.95	.12	2.48	435	.29	2.19	.56	112	28
3100	3.02	.09	5.61	431	.48	5.13	1.34	169	44
3090	3.74	.09	4.13	436	.36	3.77	1.12	100	29
3080	2.04	.11	2.79	433	.31	2.48	.64	121	31
3060	1.96	.15	2.63	433	.40	2.23	.75	113	38
3050	1.82	.15	2.42	434	.37	2.05	.60	112	32
3040	1.99	.11	2.66	432	.30	2.36	.71	118	35
3030	2.15	.12	2.84	434	.35	2.49	.73	115	33
3020	2.18	.14	3.06	433	.42	2.64	.85	121	38
3010	2.00	.16	2.70	433	.42	2.28	.73	114	36
3000	1.83	.15	2.61	434	.40	2.21	.72	120	39
2990	2.28	.11	2.72	429	.29	2.43	.81	106	35
2980	2.13	.13	2.93	432	.39	2.54	.82	119	38
2970	3.02	.11	3.49	432	.38	3.11	1.17	102	38
2960	2.13	.13	2.44	435	.32	2.12	.97	99	45
2950	2.38	.11	2.91	433	.32	2.59	1.08	108	45
2940	2.41	.13	2.64	432	.33	2.31	1.08	95	44
2930	2.43	.10	3.05	433	.31	2.74	.93	112	38
2920	3.56	.09	3.66	432	.33	3.33	1.03	93	28
2910	3.61	.11	3.22	429	.35	2.87	.88	79	24
2890	5.00	.06	4.93	432	.32	4.61	1.40	92	28
2880	2.91	.17	3.75	430	.63	3.12	1.22	107	41
2870	3.68	.09	4.70	432	.42	4.28	1.14	116	30
2860	2.88	.10	3.37	434	.35	3.02	1.06	104	36
2850	2.09	.14	2.51	432	.34	2.17	.79	103	37
2840	3.37	.12	3.51	434	.42	3.09	1.10	91	32
2830	3.54	.11	3.90	433	.41	3.49	.98	98	27
2820	3.35	.10	3.62	433	.36	3.26	.94	97	28
2810	3.09	.13	3.17	432	.41	2.76	.95	89	30
2800	3.20	.11	3.20	429	.36	2.84	.82	88	25
2790	3.50	.11	3.59	432	.39	3.20	.88	91	25
2780	2.99	.13	3.20	433	.42	2.78	.85	92	28
2770	3.39	.12	3.46	431	.42	3.04	1.00	89	29
2760	3.05	.11	2.88	436	.31	2.57	.81	84	26
2750	2.71	.12	2.63	434	.31	2.32	.84	85	30

2740	3.68	.10	3.02	432	.30	2.72	.97	73	26
2730	3.65	.10	3.29	434	.34	2.95	.84	80	23
2720	6.60	.08	6.05	434	.48	5.57	1.38	84	20
2710	9.34	.05	11.11	428	.53	10.58	2.80	113	29
2700	9.52	.05	8.35	432	.43	7.92	2.13	83	22
2690	9.44	.06	8.17	432	.50	7.67	1.98	81	20
2680	9.75	.05	9.65	430	.51	9.14	2.23	93	22
2670	6.39	.08	5.36	430	.41	4.95	1.35	77	21
2660	12.56	.03	24.27	425	.83	23.44	4.30	186	34
2650	9.06	.03	16.31	427	.52	15.79	3.13	174	34
2640	10.79	.05	10.19	429	.51	9.68	2.62	89	24
2630	12.98	.04	17.33	427	.61	16.72	3.05	128	23
2620	13.51	.04	18.13	426	.67	17.46	3.19	129	23
2610	8.92	.06	9.41	428	.58	8.83	1.96	98	21
2600	9.45	.06	8.46	430	.48	7.98	1.88	84	19
2570	5.51	.05	13.18	435	.60	12.58	2.55	228	46
2560	1.96	.05	12.36	436	.62	11.74	2.34	598	119
2550	6.55	.06	9.30	437	.59	8.71	1.84	132	28
2540	4.46	.06	6.56	438	.40	6.16	1.22	138	27
2530	8.29	.05	12.67	433	.61	12.06	2.35	145	28
2520	6.01	.09	7.61	434	.72	6.89	2.32	114	38
2510	3.34	.08	3.50	440	.28	3.22	1.09	96	32
2500	7.11	.08	10.44	435	.86	9.58	1.97	134	27
2490	12.79	.13	58.61	427	7.87	50.74	7.71	396	60
2480	10.79	.08	33.95	431	2.75	31.20	5.34	289	49
2470	2.31	.09	2.73	441	.24	2.49	.92	107	39
2460	2.54	.10	3.18	438	.33	2.85	1.10	112	43
2450	2.23	.13	2.55	439	.32	2.23	.82	100	36
2440	3.37	.07	4.06	436	.29	3.77	.92	111	27
2430	6.09	.05	7.67	435	.40	7.27	1.47	119	24
2420	4.03	.07	4.51	439	.33	4.18	1.05	103	26
2410	5.40	.06	6.90	434	.42	6.48	1.19	120	22
2400	3.29	.06	10.14	437	.60	9.54	1.86	289	56
2390	2.60	.13	3.05	436	.39	2.66	1.02	102	39
2380	2.97	.11	3.31	438	.35	2.96	1.00	99	33
2370	1.97	.13	2.40	437	.31	2.09	.81	106	41
2360	3.29	.09	3.73	438	.33	3.40	.85	103	25
2350	3.10	.09	3.88	438	.36	3.52	.80	113	25
2340	3.38	.09	3.71	438	.32	3.39	1.01	100	29
2330	3.27	.08	4.48	437	.37	4.11	.82	125	25
2320	1.81	.11	2.38	441	.27	2.11	.57	116	31
2310	1.93	.11	2.21	438	.25	1.96	.65	101	33
2300	2.03	.11	2.40	438	.27	2.13	.81	104	39
2290	9.06	.03	14.34	434	.50	13.84	2.56	152	28
2280	4.73	.06	5.11	438	.31	4.80	1.24	101	26
2270	5.37	.06	5.76	439	.37	5.39	1.37	100	25
2260	4.46	.06	5.59	436	.35	5.24	1.34	117	30
2250	5.60	.05	6.18	439	.29	5.89	1.45	105	25
2240	4.25	.07	4.40	438	.30	4.10	1.24	96	29
2230	5.98	.05	7.40	437	.37	7.03	1.56	117	26
2220	4.12	.07	5.05	440	.33	4.72	1.13	114	27
2210	8.14	.04	11.06	432	.44	10.62	2.00	130	24

2200	7.55	.06	8.90	435	.49	8.41	2.22	111	29
2190	4.34	.07	5.50	437	.37	5.13	1.58	118	36
2180	4.72	.07	5.20	438	.38	4.82	1.68	102	35
2170	3.67	.06	3.41	438	.22	3.19	1.39	86	37
2160	4.00	.07	3.42	437	.24	3.18	1.36	79	34
2150	.01	0.00	.01	0	0.00	.01	.10	1001	000
2150	3.91	.07	3.66	439	.24	3.42	1.57	87	40
2140	4.69	.06	4.76	440	.30	4.46	1.64	95	34
2130	5.78	.05	6.70	441	.34	6.36	1.65	110	28
2120	5.04	.04	8.20	441	.34	7.86	1.89	155	37
2110	6.62	.05	7.66	440	.38	7.28	2.05	109	30
2100	3.10	.10	2.79	440	.27	2.52	1.50	81	48
2090	3.29	.08	3.43	440	.29	3.14	1.30	95	39
2080	2.07	.12	1.94	439	.24	1.70	1.24	82	59
2070	2.24	.13	2.29	441	.30	1.99	.97	88	43
2060	3.06	.07	3.21	438	.24	2.97	1.18	97	38
2050	.01	0.00	.01	0	0.00	.01	.01	100	100
2040	3.82	.07	3.55	440	.26	3.29	1.18	86	30
2030	7.25	.06	11.20	436	.64	10.56	2.96	145	40
2020	.01	0.00	.01	0	0.00	.01	.07	100	699
2010	5.27	.04	10.75	438	.48	10.27	2.98	194	56
2000	2.24	.10	3.05	437	.30	2.75	1.12	122	50
1990	3.47	.10	3.81	438	.39	3.42	1.30	98	37
1980	6.22	.05	8.15	433	.38	7.77	2.10	124	33
1970	3.38	.07	3.38	439	.24	3.14	1.36	92	40
1960	4.48	.06	6.38	437	.39	5.99	1.33	133	29
1950	4.38	.09	4.80	438	.45	4.35	1.66	99	37
1940	6.18	.07	8.14	439	.55	7.59	2.23	122	36
1930	3.34	.12	5.12	439	.62	4.50	1.73	134	51
1920	5.24	.10	7.46	440	.77	6.69	2.26	127	43
1910	7.32	.08	8.28	439	.68	7.60	2.56	103	34
1900	7.00	.12	12.21	435	1.44	10.77	3.52	153	50
1890	4.70	.08	5.30	441	.42	4.88	1.77	103	37
1880	5.12	.07	5.68	440	.37	5.31	2.07	103	40
1870	4.25	.07	4.84	438	.36	4.48	1.65	105	38
1860	3.48	.10	3.83	442	.39	3.44	1.34	98	38
1850	2.97	.12	3.55	439	.41	3.14	1.35	105	45
1840	2.30	.11	2.54	441	.28	2.26	.97	98	42
1830	2.74	.12	2.99	440	.36	2.63	1.07	95	39
1820	1.91	.13	1.92	443	.25	1.67	.89	87	46
1810	3.68	.09	4.39	438	.41	3.98	1.49	108	40
1800	5.14	.06	5.34	440	.30	5.04	2.07	98	40
1790	4.73	.10	5.72	437	.58	5.14	1.99	108	42
1700	3.24	.07	2.61	441	.17	2.44	1.62	75	50
1690	2.20	.08	2.13	439	.17	1.96	1.15	89	52
1680	2.39	.08	2.14	440	.17	1.97	1.18	82	49
1670	4.16	.07	3.78	441	.26	3.52	1.51	84	36
1660	2.16	.11	2.17	436	.24	1.93	1.36	89	62
1650	1.15	.14	1.22	438	.17	1.05	.79	91	68
1630	1.15	.13	1.15	439	.15	1.00	.64	86	55
1540	2.02	.16	2.92	433	.46	2.46	.97	121	48
1530	1.41	.16	1.78	435	.28	1.50	.91	106	64

1520	1.70	.14	2.11	438	.30	1.81	.89	106	52
1510	1.33	.15	1.68	438	.26	1.42	.82	106	61
1500	1.64	.19	2.48	440	.48	2.00	.57	121	34
1490	1.58	.29	3.50	440	1.00	2.50	.73	158	46
1480	1.25	.24	2.01	440	.49	1.52	.72	121	57
1470	1.44	.25	2.45	440	.61	1.84	.72	127	50
1460	1.43	.31	3.21	437	1.01	2.20	.72	153	50
1450	1.13	.26	1.56	438	.40	1.16	.59	102	52
1440	1.26	.31	1.42	438	.44	.98	.72	77	57
1430	1.07	.29	1.39	435	.40	.99	.82	92	76
1420	1.19	.25	1.65	441	.41	1.24	.55	104	46
1410	1.04	.38	2.22	433	.85	1.37	.75	131	72
1400	1.04	.30	1.66	435	.49	1.17	.72	112	69
1390	1.02	.30	1.43	433	.43	1.00	.70	98	68
1380	.80	.26	1.12	438	.29	.83	.47	103	58
1370	.75	.29	1.07	437	.31	.76	.47	101	62
1360	1.78	.17	2.36	440	.40	1.96	.70	110	39
1350	1.65	.19	2.47	440	.46	2.01	.76	121	46
1340	3.68	.09	4.35	441	.39	3.96	1.38	107	37
1330	1.28	.18	1.70	443	.30	1.40	.54	109	42
1320	.90	.24	1.01	438	.24	.77	.63	85	70
1310	1.47	.23	1.97	442	.45	1.52	.69	103	46
1300	1.11	.22	1.38	442	.31	1.07	.72	96	64
1290	.96	.20	1.03	443	.21	.82	.62	85	64
1280	1.34	.17	1.86	441	.32	1.54	.70	114	52
1270	1.33	.21	1.92	441	.41	1.51	.76	113	57
1260	1.46	.18	2.28	438	.42	1.86	1.39	127	95
1250	1.31	.18	1.53	439	.27	1.26	1.09	96	83
1240	1.31	.17	1.33	439	.23	1.10	1.23	83	93
1230	.88	.25	1.58	425	.39	1.19	.80	135	90
1220	.61	.32	.91	438	.29	.62	.33	101	54
1210	.73	.30	1.20	439	.36	.84	.39	115	53
1200	.70	.31	1.24	437	.39	.85	.45	121	64
1190	1.09	.24	1.47	441	.36	1.11	.54	101	49
1180	.81	.22	1.16	440	.26	.90	.43	111	53
1170	.28	.38	.29	403	.11	.18	.27	64	96
1160	1.23	.15	1.66	436	.25	1.41	.62	114	50
1150	.71	.18	.77	439	.14	.63	.60	88	84
1140	.83	.24	1.05	442	.25	.80	.43	96	51
1130	1.06	.20	1.37	443	.27	1.10	.53	103	50
1120	.86	.21	1.08	441	.23	.85	.54	98	62
1110	.54	.30	.56	409	.17	.39	.46	72	85
1100	.06	.25	.83	441	.21	.62	.33	1033	550
1090	.68	.35	.69	419	.24	.45	.37	66	54
1080	.01	0.00	.01	0	0.00	.01	.16	1001	600
1070	1.17	.17	1.69	439	.28	1.41	.59	120	50
1060	.82	.23	1.37	437	.31	1.06	.58	129	70
1050	.98	.18	1.45	441	.26	1.19	.59	121	60
1040	.74	.21	1.23	440	.26	.97	.46	131	62
1030	.72	.21	1.24	440	.26	.98	.41	136	56
1020	.66	.20	1.09	440	.22	.87	.43	131	65
1010	.44	.31	.58	443	.18	.40	.35	90	79

1000	.45	.30	.67	439	.20	.47	.36	104	80
990	.47	.30	.92	436	.28	.64	.51	136	108
980	.64	.31	1.28	438	.40	.88	.37	137	57
970	.70	.23	.78	441	.18	.60	.81	85	115
960	.87	.19	.83	442	.16	.67	.88	77	101
950	.68	.23	.84	441	.19	.65	.90	95	132
940	.48	.33	.86	441	.28	.58	.18	120	37
930	.50	.33	.87	439	.29	.58	.25	116	50
920	.47	.32	.82	441	.26	.56	.23	119	48
910	1.93	.12	2.77	436	.32	2.45	1.06	126	54
900	1.95	.11	2.45	440	.27	2.18	1.00	111	51
890	2.00	.09	2.73	438	.24	2.49	.94	124	47
800	.56	.31	.52	439	.16	.36	.39	64	69
790	.75	.22	.85	440	.19	.66	.42	88	56
780	.78	.24	1.00	437	.24	.76	.45	97	57
770	.79	.23	.93	438	.21	.72	.48	91	60
760	.92	.26	1.27	437	.33	.94	.54	102	58
750	.78	.23	.87	443	.20	.67	.43	85	55
740	.89	.26	1.33	439	.35	.98	.42	110	47
730	.82	.20	.84	441	.17	.67	.47	81	57
720	.90	.19	.96	439	.18	.78	.49	86	54
710	.86	.20	.94	439	.19	.75	.54	87	62
700	1.03	.20	1.18	438	.24	.94	.61	91	59
690	.99	.20	1.03	441	.21	.82	.57	82	57
680	1.05	.18	1.14	438	.21	.93	.67	88	63
670	.94	.19	1.04	439	.20	.84	.57	89	60
660	.89	.22	1.14	436	.25	.89	.53	100	59
650	.81	.21	.97	442	.20	.77	.49	95	60
640	.77	.20	.75	445	.15	.60	.44	77	57
630	.84	.19	.98	437	.19	.79	.55	94	65
620	.88	.19	1.03	435	.20	.83	.66	94	75
610	.78	.23	.84	436	.19	.65	.58	83	74
600	.79	.17	.82	437	.14	.68	.57	86	72
590	.76	.26	.90	435	.23	.67	.54	88	71
580	1.39	.15	1.67	437	.25	1.42	.68	102	48
570	1.35	.17	1.85	434	.31	1.54	.68	114	50
560	1.41	.13	1.71	438	.22	1.49	.72	105	51
550	1.27	.14	1.55	437	.21	1.34	.71	105	55
540	2.59	.14	3.24	435	.45	2.79	1.36	107	52
530	2.49	.14	2.97	438	.41	2.56	1.29	102	51
520	2.78	.11	2.80	438	.31	2.49	1.31	89	47
510	2.52	.12	2.48	440	.29	2.19	1.22	86	48
500	2.65	.13	2.66	437	.35	2.31	1.35	87	50
490	2.69	.14	2.98	436	.41	2.57	1.41	95	52
480	2.83	.14	3.06	438	.43	2.63	1.40	92	49
470	1.42	.21	1.84	438	.39	1.45	.78	102	54
460	1.53	.22	1.79	440	.39	1.40	.79	91	51
450	1.46	.22	1.61	440	.35	1.26	.84	86	57
440	1.21	.26	2.13	437	.56	1.57	.74	129	61
430	1.43	.32	1.49	430	.47	1.02	.92	71	64
420	1.06	.26	.73	439	.19	.54	.68	50	64
410	1.18	.30	1.00	434	.30	.70	.82	59	69

400	1.17	.32	1.11	430	.36	.75	.90	64	76
390	1.77	.28	1.55	430	.43	1.12	1.10	63	62
380	1.85	.23	1.43	436	.33	1.10	.98	59	52
370	2.92	.16	2.88	434	.46	2.42	1.31	82	44
360	1.07	.39	1.32	431	.51	.81	.81	75	75
350	1.20	.43	2.03	428	.88	1.15	.92	95	76
340	1.83	.20	1.90	434	.38	1.52	1.18	83	64
330	1.63	.25	2.26	434	.57	1.69	1.06	103	65
320	1.37	.25	.89	439	.22	.67	.68	48	49
310	1.50	.25	1.25	432	.31	.94	.72	62	48
300	1.71	.24	1.68	429	.40	1.28	1.04	74	60
290	2.53	.15	1.87	439	.28	1.59	1.32	62	52
280	1.27	.27	.90	435	.24	.66	.95	51	74
270	1.12	.27	1.05	429	.28	.77	.82	68	73
260	1.23	.22	1.03	437	.23	.80	.69	65	56
250	1.41	.33	1.77	427	.58	1.19	.91	84	64
240	1.60	.21	1.67	431	.35	1.32	1.07	82	66
230	1.61	.23	1.87	432	.43	1.44	1.07	89	66
220	1.47	.23	1.77	429	.41	1.36	1.05	92	71
210	1.19	.32	1.22	421	.39	.83	1.43	69	120
200	1.24	.30	1.28	426	.39	.89	.94	71	75
190	1.19	.26	.88	432	.23	.65	1.00	54	84
180	1.11	.31	.85	428	.26	.59	.99	53	89
170	2.07	.30	5.25	431	1.60	3.65	1.54	176	74
160	1.12	.31	1.04	427	.32	.72	.79	64	70
150	1.12	.31	.85	430	.26	.59	.96	52	85
140	10.30	.34	7.90	432	2.72	5.18	8.81	50	85
130	1.91	.45	5.82	399	2.63	3.19	1.18	167	61
120	1.81	.44	4.77	384	2.11	2.66	1.40	146	77
110	2.12	.42	6.11	422	2.57	3.54	1.33	166	62
100	.83	.43	1.37	402	.59	.78	1.23	93	148
90	.69	.45	1.07	398	.48	.59	1.16	85	168
80	1.23	.27	1.87	427	.50	1.37	1.43	111	116
70	.43	.46	.63	389	.29	.34	1.06	79	246
60	1.17	.26	.68	431	.18	.50	1.84	42	157
50	1.41	.26	.90	432	.23	.67	1.43	47	101
40	1.19	.32	.76	433	.24	.52	1.71	43	143
30	.82	.39	.41	433	.16	.25	.37	30	45
20	.90	.43	.70	427	.30	.40	.39	44	43
10	.97	.46	.67	427	.31	.36	.46	37	47

Chevron SOBC WM Whitefish YT J-70

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
120F	3.18	.74	21.91	368	16.27	5.64	1.50	177	47
150F	2.75	.63	11.60	390	7.27	4.33	1.83	157	66
170	2.69	.55	11.03	420	6.04	4.99	2.59	185	96
180	2.25	.60	7.34	424	4.39	2.95	2.23	131	99
200	2.56	.55	10.86	418	5.96	4.90	2.57	191	100
270	.68	.76	3.71	373	2.83	.88	.90	129	132
280	1.04	.69	3.14	391	2.18	.96	1.09	92	104
290	.89	.68	4.15	404	2.83	1.32	.91	148	102
310	1.28	.68	4.66	394	3.16	1.50	1.13	117	88
320	1.06	.70	4.70	367	3.27	1.43	.98	134	92
340	.70	.72	2.33	397	1.67	.66	.84	94	119
350	.87	.66	3.08	413	2.04	1.04	.89	119	102
360	1.07	.69	3.78	401	2.60	1.18	1.03	110	96
380	.89	.67	3.64	409	2.44	1.20	.93	134	104
500	1.05	.67	3.26	413	2.18	1.08	.96	102	91
510	1.05	.65	2.33	415	1.52	.81	.94	77	89
520	1.15	.61	3.17	415	1.94	1.23	.99	106	86
530	1.32	.62	3.86	415	2.40	1.46	1.21	110	91
540	1.09	.60	2.66	418	1.59	1.07	.82	98	75
550	1.03	.64	2.94	407	1.89	1.05	.75	101	72
560	1.16	.61	3.20	417	1.94	1.26	.85	108	73
570	.90	.62	2.41	415	1.50	.91	.81	101	90
580	.80	.64	2.33	419	1.49	.84	.69	105	86
590	.77	.67	2.56	414	1.72	.84	.61	109	79
600	.85	.63	2.79	414	1.77	1.02	.68	120	80
620	.77	.61	1.49	411	.91	.58	.56	75	72
640	.90	.55	1.97	418	1.08	.89	.64	98	71
660	.96	.55	2.55	416	1.39	1.16	.83	120	86
680	.18	.63	2.21	412	1.39	.82	.85	455	472
700	1.06	.62	3.49	412	2.18	1.31	1.00	123	94
720	1.06	.66	2.74	406	1.81	.93	1.25	87	117
740	1.12	.64	3.48	410	2.22	1.26	1.10	112	98
760	1.53	.59	3.96	416	2.32	1.64	1.25	107	81
780	1.37	.63	3.43	415	2.17	1.26	1.26	91	91
800	1.56	.62	8.29	371	5.14	3.15	1.00	201	64
820	1.10	.65	3.10	409	2.00	1.10	1.01	100	91
840	.88	.66	2.34	416	1.54	.80	.95	90	107
860	1.08	.65	3.16	414	2.06	1.10	1.00	101	92
880	1.14	.59	3.23	419	1.89	1.34	.88	117	77
900	1.22	.65	4.07	411	2.66	1.41	.86	115	70
960	.73	.54	.87	415	.47	.40	1.47	54	201
970	.50	.46	.85	447	.39	.46	2.94	92	588
980	.34	.40	.42	457	.17	.25	3.85	731	132
990	.24	.38	.32	461	.12	.20	4.38	831	825
1000	.91	.45	.94	427	.42	.52	.79	57	86
1020	.34	.54	.59	453	.32	.27	3.56	791	047
1040	.73	.55	1.34	419	.74	.60	2.32	82	317
1060	.52	.27	.77	447	.21	.56	4.71	107	905
1080	.55	.44	.82	435	.36	.46	3.04	83	552

1110	.99	.44	1.25	421	.55	.70	.78	70	78
1120	1.08	.41	1.15	433	.47	.68	.40	62	37
1140	1.00	.36	.94	435	.34	.60	.47	60	47
1160	.99	.35	.63	439	.22	.41	.46	41	46
1180	1.06	.39	1.12	430	.44	.68	.60	64	56
1200	1.28	.56	2.05	420	1.14	.91	.68	71	53
1220	1.55	.55	5.71	370	3.14	2.57	.60	165	38
1240	1.09	.44	.89	426	.39	.50	.69	45	63
1260	1.10	.34	.56	425	.19	.37	.28	33	25
1280	1.15	.41	.69	422	.28	.41	.36	35	31
1300	1.13	.29	.45	425	.13	.32	.33	28	29
1320	1.14	.22	.54	427	.12	.42	.41	36	35
1340	1.16	.30	.61	426	.18	.43	.40	37	34
1360	1.26	.19	.69	426	.13	.56	.44	44	34
1380	1.36	.23	.75	425	.17	.58	.59	42	43
1400	1.32	.17	.84	427	.14	.70	.54	53	40
1420	1.20	.18	.55	425	.10	.45	.65	37	54
1440	1.10	.20	.40	428	.08	.32	.70	29	63
1460	1.32	.09	.89	423	.08	.81	.79	61	59
1480	1.37	.11	.93	424	.10	.83	.81	60	59
1500	1.37	.16	.85	422	.14	.71	.75	51	54
1520	1.17	.17	.72	425	.12	.60	.67	51	57
1540	1.20	.31	1.02	426	.32	.70	.88	58	73
1560	1.08	.38	.89	429	.34	.55	.94	50	87
1580	1.22	.32	1.25	419	.40	.85	.98	69	80
1600	1.20	.42	1.21	428	.51	.70	.84	58	70
1620	.97	.32	.65	429	.21	.44	.67	45	69
1640	1.00	.32	.91	429	.29	.62	.81	62	81
1660	.88	.43	.90	426	.39	.51	.82	57	93
1680	.93	.35	.77	427	.27	.50	.56	53	60
1700	1.06	.24	.67	431	.16	.51	.61	48	57
1720	.90	.37	.97	422	.36	.61	.62	67	68
1740	1.02	.35	1.17	422	.41	.76	.79	74	77
1760	1.05	.39	1.09	429	.43	.66	.53	62	50
1780	1.07	.34	.93	425	.32	.61	.63	57	58
1800	1.29	.23	1.62	414	.38	1.24	1.11	96	86
1820	1.08	.35	1.08	425	.38	.70	.61	64	56
1840	1.05	.31	1.08	426	.34	.74	.66	70	62
1860	1.02	.17	1.51	411	.25	1.26	.49	123	48
1880	1.80	.19	1.38	431	.26	1.12	.79	62	43
1900	.92	.22	1.32	420	.29	1.03	.57	111	61
1920	.78	.37	.91	420	.34	.57	.51	73	65
1940	1.08	.29	1.36	410	.39	.97	1.14	89	105
1960	1.34	.26	.97	436	.25	.72	.66	53	49
1980	1.09	.31	1.27	413	.39	.88	.55	80	50
2000	1.22	.35	1.13	434	.39	.74	.58	60	47
2020	1.29	.24	1.66	414	.40	1.26	.58	97	44
2040	1.04	.30	1.03	437	.31	.72	.50	69	48
2060	.90	.34	.77	450	.26	.51	.47	56	52
2080	1.29	.56	2.66	425	1.48	1.18	.64	91	49
2100	1.05	.27	1.18	439	.32	.86	.56	81	53
2120	.82	.31	.91	439	.28	.63	.52	76	63

2140	.70	.32	.80	430	.26	.54	.42	77	59
2160	.88	.31	1.15	412	.36	.79	.44	89	50
2180	.74	.28	.65	432	.18	.47	.43	63	58
2200	.91	.26	.91	430	.24	.67	.36	73	39
2220	1.01	.12	1.51	400	.18	1.33	.39	131	38
2240	.78	.20	.65	439	.13	.52	.30	66	38
2260	.88	.17	.65	438	.11	.54	.32	61	36
2280	1.02	.19	.86	441	.16	.70	.36	68	35
2300	1.01	.17	.88	438	.15	.73	.40	72	39
2320	.76	.18	.83	433	.15	.68	.37	89	48
2340	.90	.19	1.04	436	.20	.84	.40	93	44
2360	1.10	.16	.87	440	.14	.73	.41	66	37
2380	.86	.24	.72	434	.17	.55	.32	63	37
2400	.86	.27	.84	437	.23	.61	.38	70	44
2420	1.70	.17	2.64	335	.44	2.20	2.10	129	123
2440	.87	.15	.60	438	.09	.51	.37	58	42
2460	1.14	.22	1.05	439	.23	.82	.40	71	35
2480	1.05	.22	.94	440	.21	.73	.44	69	41
2500	.92	.31	1.06	442	.33	.73	.53	79	57
2520	1.07	.19	1.03	441	.20	.83	.60	77	56
2540	.87	.21	.81	440	.17	.64	.48	73	55
2560	.74	.18	.56	455	.10	.46	.40	62	54
2580	.86	.21	.91	438	.19	.72	.39	83	45
2600	1.23	.17	1.15	441	.19	.96	.50	78	40
2620	1.18	.17	1.27	440	.21	1.06	.41	89	34
2640	1.42	.13	1.72	441	.22	1.50	.72	105	50
2660	1.37	.14	1.29	442	.18	1.11	.60	81	43
2690	1.25	.21	1.55	440	.32	1.23	.43	98	34
2700	1.15	.26	1.55	440	.40	1.15	.56	100	48
2720	1.10	.17	1.32	439	.22	1.10	.53	100	48
2740	1.57	.12	1.80	438	.21	1.59	.66	101	42
2760	1.38	.16	1.99	435	.32	1.67	.47	121	34
2780	.90	.23	1.40	437	.32	1.08	.37	120	41
2800	1.97	.16	1.98	436	.31	1.67	.92	84	46
2820	.20	.14	2.31	433	.32	1.99	.56	995	280
2840	.13	.14	1.59	439	.22	1.37	.51	1053	392
2860	1.70	.22	2.10	440	.47	1.63	.78	95	45
2880	1.33	.22	1.78	433	.40	1.38	.87	103	65
2900	1.69	.22	2.14	437	.47	1.67	1.39	98	82
2920	5.79	.07	10.13	435	.71	9.42	2.23	162	38
2940	4.27	.10	5.30	438	.55	4.75	1.22	111	28
2960	3.01	.13	3.35	440	.42	2.93	1.09	97	36
2980	2.19	.34	3.64	422	1.23	2.41	.92	110	42
3000	2.18	.24	3.10	431	.74	2.36	1.09	108	50
3020	2.12	.14	2.45	438	.34	2.11	.95	99	44
3040	1.14	.21	1.45	435	.30	1.15	.53	100	46
3060	1.07	.18	1.31	438	.24	1.07	.65	100	60
3100	2.00	.17	2.36	436	.39	1.97	.91	98	45
3110	1.95	.17	2.50	437	.43	2.07	.78	106	40
3120	1.60	.26	2.53	433	.67	1.86	.84	116	52
3140	.15	.21	1.93	440	.41	1.52	.81	1013	540
3160	.14	.17	1.76	443	.30	1.46	.63	1042	450

3180	1.19	.24	1.97	438	.47	1.50	.50	126	42
3200	.97	.21	1.29	440	.27	1.02	.39	105	40
3220	1.27	.17	1.72	443	.30	1.42	.45	111	35
3240	1.51	.14	1.94	435	.27	1.67	.73	110	48
3260	1.33	.17	1.55	443	.27	1.28	.44	96	33
3280	.77	.25	1.10	440	.27	.83	.43	107	55
3300	.79	.18	1.20	439	.21	.99	.20	125	25
3320	1.05	.14	1.43	438	.20	1.23	.36	117	34
3340	1.09	.15	1.49	438	.22	1.27	.42	116	38
3360	1.65	.15	1.91	439	.29	1.62	.69	98	41
3380	.95	.19	1.29	440	.25	1.04	.34	109	35
3400	1.37	.15	1.78	437	.26	1.52	.40	110	29
3420	.90	.19	1.35	438	.25	1.10	.29	122	32
3440	1.15	.14	1.55	437	.21	1.34	.39	116	33
3460	.97	.20	1.41	441	.28	1.13	.21	116	21
3480	1.21	.13	1.49	437	.20	1.29	.27	106	22
3500	1.43	.11	1.74	442	.20	1.54	.37	107	25
3520	1.27	.16	1.65	439	.26	1.39	.46	109	36
3540	1.24	.20	1.81	438	.37	1.44	.43	116	34
3560	1.21	.23	1.88	438	.43	1.45	.35	119	28
3580	1.11	.21	1.79	438	.38	1.41	.30	127	27
3600	.98	.20	1.37	438	.27	1.10	.29	112	29
3620	.86	.20	1.33	441	.27	1.06	.19	123	22
3640	1.59	.18	2.61	440	.46	2.15	.52	135	32
3660	2.19	.19	3.42	439	.66	2.76	.94	126	42
3680	1.70	.14	2.35	439	.33	2.02	.72	118	42
3700	1.39	.16	2.04	439	.32	1.72	.50	123	35
3720	1.38	.20	1.92	440	.39	1.53	.46	110	33
3740	1.24	.22	2.03	438	.44	1.59	.45	128	36
3770	1.50	.19	2.66	436	.50	2.16	.54	144	36
3780	1.49	.12	2.50	439	.29	2.21	.34	148	22
3800	1.65	.15	2.87	440	.42	2.45	.42	148	25
3820	1.66	.19	2.69	438	.50	2.19	.62	131	37
3840	1.76	.18	3.02	441	.54	2.48	.55	140	31
3860	1.62	.23	3.12	441	.73	2.39	.46	147	28
3880	1.56	.20	2.99	440	.59	2.40	.49	153	31
3900	1.44	.25	3.08	442	.78	2.30	.38	159	26
3920	1.63	.18	2.95	439	.54	2.41	.61	147	37
3950	1.65	.13	2.24	438	.29	1.95	.49	118	29
3960	1.90	.14	2.93	440	.42	2.51	.51	132	26
3980	1.80	.13	2.40	443	.31	2.09	.61	116	33
4000	2.16	.17	3.80	440	.64	3.16	.60	146	27
4020	1.89	.09	2.80	437	.24	2.56	.71	135	37
4040	1.90	.14	2.88	439	.40	2.48	.47	130	24
4060	2.13	.10	2.97	438	.30	2.67	.64	125	30
4080	.27	.17	3.26	438	.55	2.71	.65	1003	240
4100	1.90	.21	3.87	433	.82	3.05	.56	160	29
4120	1.68	.17	2.60	438	.43	2.17	.60	129	35
4140	1.55	.12	2.08	442	.24	1.84	.81	118	52
4160	1.54	.10	1.96	441	.19	1.77	.90	114	58
4180	1.66	.10	2.13	442	.21	1.92	.68	115	40
4200	1.57	.11	2.03	444	.22	1.81	.68	115	43

4220	1.69	.09	2.02	443	.19	1.83	.47	108	27
4240	1.77	.09	1.82	440	.17	1.65	.63	93	35
4260	1.68	.17	2.33	443	.40	1.93	.56	114	33
4280	1.89	.13	2.00	442	.25	1.75	.61	92	32
4300	1.72	.13	1.92	442	.24	1.68	.70	97	40
4320	2.11	.19	2.56	442	.48	2.08	.94	98	44
4340	1.86	.10	2.55	443	.26	2.29	.46	123	24
4360	1.98	.14	2.47	442	.34	2.13	.52	107	26
4380	2.11	.13	2.67	440	.34	2.33	.54	110	25
4400	2.06	.14	2.23	441	.31	1.92	.71	93	34
4420	2.11	.12	2.58	444	.30	2.28	.46	108	21
4440	2.32	.12	2.55	440	.30	2.25	.64	96	27
4460	2.21	.13	2.89	443	.38	2.51	.45	113	20
4480	2.10	.12	2.50	443	.31	2.19	.40	104	19
4500	1.92	.12	2.39	441	.28	2.11	.36	109	18
4520	1.97	.11	2.36	444	.27	2.09	.37	106	18
4540	1.97	.11	2.49	445	.27	2.22	.43	112	21
4560	1.99	.15	2.64	443	.40	2.24	.34	112	17
4580	1.91	.11	2.67	442	.29	2.38	.42	124	21
4600	2.03	.10	2.19	444	.21	1.98	.42	97	20
4620	1.97	.11	1.96	441	.21	1.75	.80	88	40
4640	1.82	.10	1.93	442	.19	1.74	.47	95	25
4660	1.79	.12	2.26	444	.28	1.98	.52	110	29
4680	1.59	.10	1.91	447	.19	1.72	.22	108	13
4700	1.92	.11	2.02	445	.22	1.80	.71	93	36
4720	1.73	.09	1.80	445	.16	1.64	.26	94	15
4740	1.39	.19	1.62	440	.30	1.32	.16	94	11
4760	1.29	.15	1.44	443	.21	1.23	.22	95	17
4780	1.25	.14	1.46	443	.21	1.25	.18	100	14
4800	1.58	.16	2.55	447	.40	2.15	.25	136	15
4820	1.75	.15	2.50	442	.37	2.13	.31	121	17
4840	1.62	.22	2.53	443	.55	1.98	.32	122	19
4860	1.78	.17	2.69	441	.45	2.24	.28	125	15
4880	1.84	.14	2.31	445	.33	1.98	.57	107	30
4900	1.68	.14	2.07	444	.28	1.79	.29	106	17
4920	1.90	.11	2.32	442	.25	2.07	.36	108	18
4940	1.80	.14	2.14	445	.30	1.84	.74	102	41
4960	1.57	.23	2.51	445	.57	1.94	.33	123	21
4980	1.38	.17	2.01	445	.35	1.66	.40	120	28
5000	1.43	.20	2.07	443	.41	1.66	.44	116	30
5020	1.48	.19	2.12	444	.40	1.72	.48	116	32
5040	1.52	.14	2.29	444	.31	1.98	.29	130	19
5060	1.51	.13	2.21	447	.28	1.93	.20	127	13
5080	1.55	.13	1.75	446	.22	1.53	.63	98	40
5100	1.42	.18	1.64	442	.29	1.35	.87	95	61
5120	1.21	.14	1.53	445	.22	1.31	.45	108	37
5140	1.45	.15	1.72	441	.25	1.47	.39	101	26
5160	1.31	.13	1.58	443	.20	1.38	.25	105	19
5180	1.30	.14	1.68	443	.24	1.44	.39	110	30
5200	1.15	.16	1.53	444	.25	1.28	.18	111	15
5220	1.13	.14	1.36	443	.19	1.17	.20	103	17
5240	.71	.22	.80	441	.18	.62	.35	87	49

5260	1.01	.16	1.06	440	.17	.89	.17	88	16
5280	.82	.22	1.01	442	.22	.79	.06	96	7
5300	1.25	.19	1.77	442	.33	1.44	.13	115	10
5320	.78	.20	.83	443	.17	.66	.09	84	11
5340	.90	.31	1.39	443	.43	.96	.15	106	16
5360	.93	.32	1.39	443	.45	.94	.19	101	20
5380	1.51	.18	1.81	444	.33	1.48	.29	98	19
5400	1.45	.22	2.20	443	.49	1.71	.34	117	23
5420	1.29	.31	1.76	444	.54	1.22	1.75	94	135
5440	1.12	.29	1.66	444	.48	1.18	.20	105	17
5460	.95	.28	1.49	442	.42	1.07	.30	112	31
5480	.92	.34	1.48	439	.51	.97	.27	105	29
5500	1.44	.12	2.08	444	.25	1.83	.23	127	15
5520	.92	.27	1.35	444	.36	.99	.25	107	27
5540	.07	.36	.97	441	.35	.62	.17	885	242
5560	.70	.27	1.04	443	.28	.76	.17	108	24
5580	1.16	.18	1.59	443	.28	1.31	.51	112	43
5600	1.34	.21	2.41	442	.50	1.91	.51	142	38
5620	1.60	.23	2.50	440	.58	1.92	.43	120	26
5640	1.02	.27	1.39	441	.38	1.01	.47	99	46
5660	1.29	.26	1.70	444	.45	1.25	.38	96	29
5680	1.43	.25	2.12	442	.52	1.60	.50	111	34
5700	1.19	.21	1.70	442	.35	1.35	.48	113	40
5720	1.19	.24	1.80	442	.44	1.36	.41	114	34
5740	.77	.27	1.14	440	.31	.83	.28	107	36
5760	2.08	.20	7.66	407	1.52	6.14	.70	295	33
5780	1.29	.22	2.73	439	.61	2.12	.44	164	34
5800	1.01	.27	1.57	443	.42	1.15	.31	113	30
5820	1.28	.21	1.59	440	.33	1.26	.49	98	38
5840	1.44	.16	1.88	440	.30	1.58	.59	109	40
5860	1.60	.20	2.02	440	.40	1.62	.61	101	38
5880	1.37	.24	2.06	440	.49	1.57	.68	114	49
5900	1.41	.18	1.97	442	.35	1.62	.41	114	29
5920	1.86	.11	3.87	417	.44	3.43	.66	184	35
5940	1.47	.15	2.15	438	.32	1.83	.44	124	29
5960	1.54	.24	2.34	438	.55	1.79	.46	116	29
5980	1.33	.16	2.21	440	.35	1.86	.42	139	31
6000	1.97	.16	2.66	441	.43	2.23	.50	113	25
6020	1.60	.20	2.39	441	.47	1.92	.60	120	37
6040	1.53	.20	1.92	441	.38	1.54	.91	100	59
6060	1.52	.27	2.60	442	.69	1.91	.42	125	27
6080	3.05	.13	10.63	406	1.39	9.24	1.69	302	55
6100	1.20	.22	1.91	440	.42	1.49	.45	124	37
6120	1.85	.22	2.83	441	.61	2.22	.53	119	28
6140	1.63	.18	2.41	443	.43	1.98	.53	121	32
6160	1.51	.20	2.54	440	.50	2.04	.42	135	27
6180	1.77	.25	3.06	441	.75	2.31	.48	130	27
6200	1.73	.23	3.41	441	.80	2.61	.46	150	26
6220	1.78	.25	3.40	440	.86	2.54	.31	142	17
6240	1.69	.22	2.99	444	.67	2.32	.29	137	17
6260	1.87	.25	3.27	439	.83	2.44	.45	130	24
6280	1.78	.25	3.26	441	.82	2.44	.49	137	27

6300	1.57	.19	2.32	441	.43	1.89	.41	120	26
6320	1.76	.19	3.05	435	.57	2.48	.50	140	28
6340	1.62	.21	2.56	440	.53	2.03	.37	125	22
6360	1.69	.21	2.52	440	.54	1.98	.42	117	24
6380	1.76	.22	2.51	443	.55	1.96	.37	111	21
6400	1.78	.19	2.53	443	.47	2.06	.60	115	33
6420	1.78	.16	3.03	442	.49	2.54	.44	142	24
6440	1.70	.20	2.44	443	.49	1.95	.25	114	14
6460	2.22	.41	7.71	436	3.14	4.57	.50	205	22
6480	1.44	.23	2.26	446	.53	1.73	.47	120	32
6500	1.56	.24	2.55	444	.61	1.94	.30	124	19
6520	1.40	.25	2.71	445	.67	2.04	.17	145	12
6540	1.41	.29	2.18	443	.64	1.54	.27	109	19
6560	1.36	.40	4.07	446	1.61	2.46	.19	180	13
6580	1.50	.24	2.98	445	.71	2.27	.24	151	16
6600	1.70	.22	2.74	444	.61	2.13	.32	125	18
6620	1.54	.25	2.85	443	.71	2.14	.22	138	14
6640	1.58	.21	2.52	443	.53	1.99	.36	125	22
6660	1.46	.26	2.53	444	.66	1.87	.40	128	27
6680	1.39	.32	3.47	444	1.10	2.37	.24	170	17
6700	1.25	.27	2.52	442	.67	1.85	.34	148	27
6720	1.53	.23	2.95	444	.68	2.27	.31	148	20
6740	1.68	.28	3.57	441	1.00	2.57	.37	152	22
6760	1.74	.31	4.05	442	1.26	2.79	.49	160	28
6840	2.18	.40	7.28	439	2.94	4.34	.86	199	39
6860	1.66	.54	7.79	440	4.22	3.57	.78	215	46
6890	1.23	.25	3.51	448	.89	2.62	.26	213	21
6900	2.29	.26	6.25	445	1.62	4.63	.48	202	20
6920	1.42	.27	3.57	446	.96	2.61	.37	183	26
6940	1.33	.22	2.21	442	.49	1.72	.30	129	22
6960	2.94	.13	6.21	442	.83	5.38	.66	182	22
6980	1.54	.25	2.72	446	.67	2.05	.55	133	35

Socony Mobil Molar P-34

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
*****	*****	*****	******	****	******	******	*****	***	***
40F	1.44	.25	1.83	448	.46	1.37	1.21	95	84
60F	1.71	.29	2.89	447	.84	2.05	1.05	119	61
80	1.82	.19	2.15	450	.40	1.75	1.15	96	63
100	1.80	.20	2.82	445	.56	2.26	.98	125	54
120	1.81	.24	3.40	449	.83	2.57	.68	141	37
140	1.85	.25	3.28	446	.82	2.46	.80	132	43
160	1.39	.32	2.59	447	.84	1.75	.71	125	51
180	1.25	.20	1.77	448	.35	1.42	.60	113	47
200	1.31	.25	2.57	446	.65	1.92	.47	146	35
220	1.63	.27	3.36	444	.91	2.45	.69	150	42
240	1.90	.24	3.55	449	.84	2.71	.56	142	29
260	2.07	.26	4.07	446	1.05	3.02	.76	145	36
280	2.11	.26	4.23	449	1.10	3.13	.72	148	34
300	2.07	.26	3.80	449	.98	2.82	.94	136	45
320	2.13	.30	4.44	446	1.31	3.13	.96	146	45
340	2.22	.32	4.55	450	1.44	3.11	.85	140	38
360	1.34	.24	2.14	447	.52	1.62	.72	120	53
380	1.24	.24	1.94	449	.46	1.48	.60	119	48
400	1.15	.33	2.10	446	.69	1.41	.58	122	50
420	.96	.24	1.45	449	.35	1.10	.36	114	37
440	1.85	.20	3.13	450	.64	2.49	.51	134	27
460	2.36	.28	4.58	450	1.30	3.28	.72	138	30
480	1.92	.20	3.18	449	.65	2.53	.81	131	42
500	2.21	.23	3.60	448	.83	2.77	.70	125	31
520	2.02	.28	3.95	447	1.10	2.85	.81	141	40
540	1.62	.25	2.71	447	.69	2.02	.60	124	37
560	1.53	.27	2.76	450	.75	2.01	.59	131	38
580	1.16	.34	2.49	448	.85	1.64	.46	141	39
600	1.02	.32	1.75	451	.56	1.19	.34	116	33
620	1.19	.26	1.94	451	.50	1.44	.46	121	38
640	1.54	.33	3.06	444	1.00	2.06	.82	133	53
660	1.51	.33	3.09	444	1.03	2.06	.99	136	65
680	1.62	.27	2.47	445	.67	1.80	1.64	111	101
700	1.21	.30	1.87	448	.56	1.31	.83	108	68
720	1.13	.40	2.11	452	.85	1.26	.63	111	55
740	.99	.31	1.35	442	.42	.93	.65	93	65
760	1.04	.39	1.79	448	.70	1.09	.55	104	52
780	1.20	.33	1.77	446	.59	1.18	.68	98	56
800	1.11	.41	2.20	450	.91	1.29	.54	116	48
820	1.14	.40	2.09	450	.83	1.26	.59	110	51
840	1.06	.30	1.51	448	.46	1.05	.46	99	43
860	1.10	.35	1.61	450	.57	1.04	.64	94	58
880	1.44	.60	5.14	445	3.09	2.05	1.03	142	71
900	1.15	.34	1.75	453	.59	1.16	.50	100	43
920	1.49	.51	3.49	449	1.78	1.71	.98	114	65
940	1.30	.39	2.52	449	.99	1.53	.50	117	38
960	1.43	.46	3.44	450	1.57	1.87	1.11	130	77
980	1.39	.42	2.76	453	1.15	1.61	.75	115	53
1000	1.59	.54	4.63	452	2.51	2.12	1.03	133	64

1020	1.39	.50	3.42	451	1.72	1.70	.94	122	67
1040	1.80	.54	4.26	448	2.28	1.98	1.29	109	71
1060	1.59	.30	2.21	453	.66	1.55	.82	97	51
1080	1.76	.35	3.30	451	1.17	2.13	1.01	121	57
1100	1.79	.38	3.03	454	1.15	1.88	.92	105	51
1120	1.90	.39	3.86	452	1.52	2.34	1.01	123	53
1140	1.91	.32	2.80	454	.89	1.91	.73	100	38
1160	1.96	.31	2.75	447	.85	1.90	1.11	96	56
1180	2.08	.31	3.09	457	.96	2.13	.60	102	28
1200	2.11	.28	2.86	456	.81	2.05	.59	97	27
1220	2.03	.25	2.51	454	.62	1.89	.73	93	35
1240	1.94	.24	2.39	455	.58	1.81	.64	93	32
1260	1.92	.28	2.50	453	.69	1.81	.61	94	31
1280	1.97	.27	2.51	453	.68	1.83	.61	92	30
1300	2.19	.27	2.85	456	.76	2.09	.63	95	28
1320	2.24	.28	2.76	456	.76	2.00	.85	89	37
1340	1.93	.33	2.99	456	.98	2.01	.68	104	35
1370	1.66	.27	2.32	454	.62	1.70	.88	102	53
1380	1.81	.27	2.33	451	.64	1.69	1.04	93	57
1400	.20	.25	2.38	453	.59	1.79	.98	895	489
1420	1.75	.33	4.50	452	1.48	3.02	1.23	172	70
1440	1.92	.37	5.42	452	2.00	3.42	1.21	178	63
1470	2.21	.32	4.94	454	1.56	3.38	1.58	152	71
1480	1.97	.29	3.96	456	1.16	2.80	.97	142	49
1500	2.01	.25	3.13	457	.77	2.36	.72	117	35
1520	2.10	.23	2.99	460	.69	2.30	.60	109	28
1540	2.12	.25	3.12	459	.79	2.33	.57	109	26
1560	1.98	.27	2.86	459	.76	2.10	.56	106	28
1580	2.18	.34	4.58	452	1.57	3.01	.64	138	29
1600	1.69	.30	2.19	454	.65	1.54	.63	91	37
1620	1.98	.28	2.74	462	.78	1.96	.50	98	25
1640	1.92	.29	2.03	458	.59	1.44	.69	74	35
1660	1.77	.28	2.06	460	.57	1.49	.48	84	27
1680	1.88	.27	2.07	461	.55	1.52	.57	80	30
1700	1.57	.31	2.12	463	.66	1.46	.60	92	38
1720	1.72	.24	1.70	461	.41	1.29	.67	75	38
1750	1.70	.27	1.79	462	.49	1.30	.76	76	44
1760	1.74	.25	1.79	460	.45	1.34	.72	77	41
1780	1.66	.30	1.80	462	.54	1.26	.69	75	41
1800	1.60	.28	1.78	459	.49	1.29	.66	80	41
1820	1.55	.28	1.62	461	.46	1.16	.39	74	25
1840	1.65	.33	2.05	459	.68	1.37	.56	83	33
1860	1.62	.29	1.77	459	.51	1.26	.64	77	39
1880	1.88	.35	2.41	461	.85	1.56	.81	82	43
1900	1.81	.31	2.06	460	.64	1.42	1.15	78	63
1920	1.28	.41	2.05	455	.84	1.21	.74	94	57
1940	1.41	.29	2.04	460	.60	1.44	.64	102	45
1960	1.32	.31	1.98	461	.61	1.37	.61	103	46
1980	1.30	.33	2.07	455	.69	1.38	.42	106	32
2000	1.35	.32	1.83	455	.59	1.24	.52	91	38
2020	1.09	.33	1.57	454	.52	1.05	.53	96	48
2040	1.69	.28	2.27	461	.64	1.63	.59	96	34

2060	1.13	.34	1.68	451	.57	1.11	.64	98	56
2080	1.01	.39	1.68	455	.66	1.02	.44	100	43
2100	1.02	.44	1.39	457	.61	.78	.43	76	42
2120	.87	.44	1.19	455	.52	.67	.08	77	9
2140	.98	.43	1.29	454	.55	.74	.20	75	20
2160	.88	.39	1.14	452	.45	.69	.35	78	39
2180	1.22	.33	1.69	455	.55	1.14	.48	93	39
2200	.96	.38	1.17	455	.45	.72	.22	74	22
2220	.88	.40	1.27	455	.51	.76	.26	86	29
2240	.72	.41	1.00	455	.41	.59	.26	81	36
2260	1.03	.35	1.35	454	.47	.88	.33	85	32
2280	1.02	.34	1.24	454	.42	.82	.25	80	24
2300	1.06	.36	1.26	455	.45	.81	.28	76	26
2320	.91	.34	.97	456	.33	.64	.13	70	14
2340	1.13	.35	1.56	454	.55	1.01	.42	89	37
2360	1.13	.34	1.43	457	.48	.95	.37	84	32
2380	1.32	.38	2.00	452	.75	1.25	.46	94	34
2400	1.14	.41	1.64	457	.67	.97	.23	85	20
2420	1.31	.31	1.60	457	.49	1.11	.49	84	37
2440	1.14	.31	1.41	453	.44	.97	.41	85	35
2460	1.17	.28	1.30	456	.37	.93	.19	79	16
2480	.94	.32	1.37	457	.44	.93	.28	98	29
2500	.52	.35	.60	462	.21	.39	.13	75	25
2520	.72	.37	.97	463	.36	.61	.19	84	26
2540	.66	.35	.77	464	.27	.50	.15	75	22
2560	1.05	.36	1.40	460	.51	.89	.89	84	84
2580	1.55	.43	2.71	451	1.16	1.55	.39	100	25
2600	1.45	.40	2.10	452	.85	1.25	.63	86	43
2620	1.99	.36	4.42	334	1.60	2.82	3.74	141	187
2640	1.27	.41	1.60	457	.65	.95	.18	74	14
2660	1.31	.38	1.78	458	.68	1.10	.34	83	25
2680	1.34	.35	2.15	456	.76	1.39	.74	103	55
2700	1.14	.29	1.46	461	.42	1.04	.35	91	30
2720	1.15	.30	1.34	457	.40	.94	.22	81	19
2720	1.14	.31	1.39	459	.43	.96	.57	84	50
2740	.95	.32	1.17	462	.38	.79	.21	83	22
2740	.96	.32	1.12	463	.36	.76	.25	79	26
2760	1.16	.32	1.46	460	.46	1.00	.31	86	26
2760	1.17	.33	1.47	458	.48	.99	.34	84	29
2780	.93	.35	1.05	465	.37	.68	.35	73	37
2800	1.01	.36	1.01	461	.36	.65	.31	64	30
2830	1.09	.37	1.35	461	.50	.85	.28	77	25
2840	1.06	.49	1.79	455	.87	.92	.20	86	18
2860	1.09	.39	1.57	460	.61	.96	.27	88	24
2880	1.04	.44	1.26	458	.55	.71	.22	68	21
2900	.87	.34	.90	467	.31	.59	.29	67	33
2920	.88	.42	.86	464	.36	.50	.08	56	9
2940	.89	.46	1.24	462	.57	.67	.13	75	14
2960	.88	.36	1.03	466	.37	.66	.14	75	15
2980	.90	.45	1.27	464	.57	.70	.33	77	36
3000	.82	.43	1.18	462	.51	.67	.17	81	20
3020	.79	.35	.86	470	.30	.56	.16	70	20

3040	.77	.36	.72	469	.26	.46	.10	59	12
3060	.82	.46	.99	469	.46	.53	.21	64	25
3080	.85	.48	1.19	466	.57	.62	.35	72	41
3100	.88	.45	.94	467	.42	.52	.61	59	69
3120	.73	.39	2.12	441	.83	1.29	.24	176	32
3140	.92	.40	1.10	458	.44	.66	.57	71	61
3160	.91	.41	1.21	462	.50	.71	.69	78	75
3180	1.00	.40	1.66	456	.66	1.00	.42	100	41
3200	.91	.36	1.08	468	.39	.69	.38	75	41
3220	.93	.47	1.13	465	.53	.60	.27	64	29
3240	.87	.38	1.02	471	.39	.63	.31	72	35
3260	.91	.34	.95	473	.32	.63	.28	69	30
3280	.92	.45	1.21	462	.54	.67	.35	72	38
3300	1.00	.38	1.29	465	.49	.80	.27	80	27
3320	.89	.38	.89	473	.34	.55	.25	61	28
3340	.93	.36	1.18	467	.43	.75	.42	80	45
3360	.92	.34	1.02	471	.35	.67	.42	72	45
3380	1.22	.32	1.52	466	.48	1.04	1.17	85	95
3400	.91	.35	.94	475	.33	.61	.33	67	36
3420	1.03	.38	1.31	465	.50	.81	.47	78	45
3450	1.06	.37	1.14	469	.42	.72	.68	67	64
3460	1.19	.36	1.80	453	.64	1.16	.51	97	42
3480	1.05	.47	1.65	463	.78	.87	.37	82	35
3500	1.04	.43	1.34	470	.58	.76	.27	73	25
3520	.98	.41	1.24	468	.51	.73	.27	74	27
3540	.94	.38	.97	475	.37	.60	.22	63	23
3560	.99	.37	1.11	455	.41	.70	.38	70	38
3580	.94	.36	.85	473	.31	.54	.24	57	25
3600	.97	.44	.89	476	.39	.50	.28	51	28
3620	.93	.39	.97	470	.38	.59	.19	63	20
3640	.94	.37	1.00	468	.37	.63	.28	67	29
3660	.91	.34	.91	470	.31	.60	.21	65	23
3680	.94	.42	1.13	468	.48	.65	.21	69	22
3700	.93	.40	.89	473	.36	.53	.21	56	22
3720	1.07	.35	1.28	465	.45	.83	.57	77	53
3740	1.07	.40	1.41	454	.56	.85	.31	79	28
3760	1.03	.40	1.36	470	.54	.82	.52	79	50
3780	3.38	.46	11.64	341	5.33	6.31	6.68	186	197
3800	1.09	.50	1.49	468	.74	.75	.68	68	62
3820	.94	.45	.99	477	.45	.54	.20	57	21
3840	1.33	.38	1.96	457	.75	1.21	1.31	90	98
3860	1.28	.33	1.65	462	.55	1.10	1.78	85	139
3880	.95	.44	1.03	472	.45	.58	.23	61	24
3900	.98	.49	1.17	473	.57	.60	.38	61	38
3920	.97	.39	.92	478	.36	.56	.45	57	46
3950	1.03	.36	1.22	468	.44	.78	.60	75	58
3960	1.01	.38	1.09	468	.41	.68	.39	67	38
3980	.96	.52	1.23	473	.64	.59	.23	61	23
4000	.96	.42	1.03	469	.43	.60	.23	62	23
4020	1.01	.36	1.01	470	.36	.65	.23	64	22
4040	.13	.40	1.67	461	.67	1.00	.43	769	330
4060	2.07	.40	5.14	333	2.04	3.10	4.40	149	212

4080	1.03	.44	1.16	474	.51	.65	.34	63	33
4110	2.01	.42	4.77	336	1.99	2.78	4.27	138	212
4120	1.67	.44	3.54	338	1.56	1.98	3.43	118	205
4140	1.15	.35	1.67	463	.58	1.09	1.70	94	147
4160	1.12	.46	1.42	458	.65	.77	1.36	68	121
4180	1.42	.35	2.13	443	.74	1.39	3.21	97	226
4200	.99	.34	.82	485	.28	.54	.52	54	52
4220	1.22	.34	1.42	411	.48	.94	1.96	77	160
4240	1.13	.36	1.08	477	.39	.69	1.09	61	96
4260	.97	.32	.81	481	.26	.55	.33	56	34
4280	2.00	.43	4.76	338	2.07	2.69	4.24	134	212
4300	2.54	.40	6.49	339	2.62	3.87	5.13	152	201
4320	1.11	.35	1.04	473	.36	.68	.73	61	65
4340	1.05	.34	.91	471	.31	.60	.23	57	21
4360	1.11	.32	.93	467	.30	.63	.14	56	12
4380	1.15	.32	1.11	466	.35	.76	.19	66	16
4400	1.45	.33	1.63	367	.53	1.10	2.01	75	138
4420	1.11	.37	1.11	475	.41	.70	.46	63	41
4440	1.11	.44	1.15	479	.51	.64	.18	57	16
4460	1.00	.41	.93	477	.38	.55	.26	54	26
4480	1.02	.47	1.19	476	.56	.63	.27	61	26
4500	1.08	.32	1.11	468	.36	.75	.45	69	41
4520	.96	.32	.77	479	.25	.52	.23	54	23
4540	1.01	.40	.88	483	.35	.53	.31	52	30
4560	1.12	.32	.93	468	.30	.63	.62	56	55
4580	1.11	.37	.99	466	.37	.62	.25	55	22
4600	1.22	.29	1.50	457	.43	1.07	.60	87	49
4620	1.05	.35	.78	468	.27	.51	.37	48	35
4640	1.12	.40	.91	460	.36	.55	.80	49	71
4660	1.07	.38	.86	474	.33	.53	.74	49	69
4680	1.14	.40	.67	487	.27	.40	.67	35	58
4700	1.06	.39	.82	480	.32	.50	.29	47	27
4720	1.72	.37	2.18	405	.80	1.38	2.63	80	152
4740	1.40	.42	1.40	408	.59	.81	1.58	57	112
4760	1.11	.33	.89	481	.29	.60	.73	54	65
4780	1.02	.44	.68	479	.30	.38	.71	37	69
4800	1.12	.42	.79	482	.33	.46	.54	41	48
4820	.96	.44	.61	488	.27	.34	.26	35	27
4840	1.07	.41	.86	475	.35	.51	.63	47	58
4860	1.05	.36	.72	485	.26	.46	.27	43	25
4880	2.12	.35	3.62	340	1.25	2.37	3.53	111	166
4900	1.43	.28	1.41	344	.40	1.01	2.16	70	151
4920	1.28	.32	1.20	346	.39	.81	1.52	63	118
4940	1.50	.34	1.48	338	.51	.97	1.97	64	131
4960	1.29	.42	1.37	434	.57	.80	1.45	62	112
4980	1.26	.55	1.52	468	.84	.68	.44	53	34
5000	1.25	.27	1.13	469	.30	.83	1.11	66	88
5020	1.19	.41	.79	478	.32	.47	.72	39	60
5040	1.12	.42	.88	472	.37	.51	.63	45	56
5060	1.27	.31	1.02	446	.32	.70	1.46	55	114
5080	1.54	.29	1.75	341	.51	1.24	2.26	80	146
5100	1.59	.38	2.14	336	.82	1.32	2.56	83	161

5120	1.08	.48	.75	481	.36	.39	.52	36	48
5140	1.86	.39	2.73	338	1.07	1.66	2.98	89	160
5160	2.91	.48	7.14	334	3.43	3.71	5.32	127	182
5180	1.16	.40	.67	492	.27	.40	.85	34	73
5200	1.41	.36	1.31	461	.47	.84	1.32	59	93
5220	1.34	.34	.93	472	.32	.61	1.11	45	82
5240	1.12	.51	.86	489	.44	.42	.43	37	38
5260	1.25	.35	.94	469	.33	.61	1.82	48	145
5280	1.18	.40	1.00	473	.40	.60	.59	50	50
5300	1.05	.54	.72	490	.39	.33	.44	31	41
5320	1.06	.43	.63	492	.27	.36	.25	33	23
5340	1.11	.42	.64	497	.27	.37	.36	33	32
5360	1.07	.46	.57	502	.26	.31	.40	28	37
5380	1.05	.45	.53	498	.24	.29	.70	27	66
5400	1.11	.49	.76	495	.37	.39	.59	35	53
5420	1.05	.48	.66	487	.32	.34	.65	32	61
5440	1.13	.45	.74	493	.33	.41	.53	36	46
5460	1.09	.43	.67	494	.29	.38	.39	34	35
5480	1.27	.38	.77	497	.29	.48	1.23	37	96
5500	1.34	.38	.93	340	.35	.58	1.41	43	105
5520	1.45	.33	1.28	389	.42	.86	1.92	59	132
5540	1.11	.43	.60	503	.26	.34	.27	30	24
5560	1.14	.52	.69	500	.36	.33	.35	28	30
5580	1.19	.49	.86	494	.42	.44	.60	36	50
5600	1.01	.45	.51	506	.23	.28	.30	27	29
5620	1.03	.49	.47	503	.23	.24	.47	23	45
5640	1.07	.42	.69	429	.29	.40	.40	37	37
5660	1.01	.51	.47	506	.24	.23	.34	22	33
5680	1.04	.48	.54	503	.26	.28	.49	26	47
5700	.98	.42	.69	498	.29	.40	.22	40	22
5720	1.07	.42	.84	481	.35	.49	.81	45	75
5740	1.01	.43	.77	488	.33	.44	.45	43	44
5760	1.11	.44	.84	470	.37	.47	.51	42	45
5780	1.17	.34	1.12	468	.38	.74	.72	63	61
5800	.99	.44	.73	488	.32	.41	.39	41	39
5820	.92	.43	.65	499	.28	.37	.22	40	23
5840	.88	.52	.56	512	.29	.27	.14	30	15
5860	.88	.59	.51	520	.30	.21	.23	23	26
5880	.86	.52	.56	520	.29	.27	.23	31	26
5900	.92	.44	.71	490	.31	.40	.50	43	54
5920	1.09	.40	.84	489	.34	.50	.65	45	59
5940	1.02	.41	.74	488	.30	.44	.34	43	33
5960	1.13	.43	1.17	449	.50	.67	.50	59	44
5980	1.28	.33	1.44	403	.47	.97	1.40	75	109
6000	2.46	.51	7.40	328	3.75	3.65	4.33	148	176
6020	.90	.46	.85	499	.39	.46	.44	51	48
6040	.94	.50	1.23	439	.61	.62	.23	65	24
6060	.96	.44	.96	483	.42	.54	.18	56	18
6080	1.05	.38	1.26	465	.48	.78	.46	74	43
6100	1.25	.38	1.68	457	.63	1.05	1.40	84	112
6120	1.38	.34	1.98	459	.68	1.30	.84	94	60
6140	.98	.48	1.09	481	.52	.57	.14	58	14

6160	.90	.49	1.15	477	.56	.59	.28	65	31
6180	.88	.52	.87	502	.45	.42	.39	47	44
6200	.93	.41	1.12	368	.46	.66	1.23	70	132
6220	1.18	.42	1.78	414	.74	1.04	1.21	88	102
6250	.86	.47	.76	513	.36	.40	.27	46	31
6260	.88	.49	.75	513	.37	.38	.30	43	34
6280	.90	.52	.90	513	.47	.43	.19	47	21
6300	.92	.52	.80	519	.42	.38	.15	41	16
6320	.86	.51	.81	514	.41	.40	.08	46	9
6340	.94	.46	.85	511	.39	.46	.39	48	41
6360	.89	.47	.68	518	.32	.36	.44	40	49
6380	.94	.48	.81	509	.39	.42	.32	44	34
6400	.96	.45	.69	509	.31	.38	.96	39	100
6420	.98	.45	.96	487	.43	.53	.34	54	34
6440	.75	.45	.65	505	.29	.36	.27	47	36
6460	.76	.49	.69	510	.34	.35	.20	46	26
6480	.80	.48	.80	504	.38	.42	.25	52	31
6500	.86	.40	.80	502	.32	.48	.35	55	40
6520	.96	.40	.95	486	.38	.57	.32	59	33
6540	.87	.45	.76	500	.34	.42	.09	48	10
6560	.93	.47	.91	496	.43	.48	.21	51	22
6580	1.05	.58	1.89	423	1.09	.80	.43	76	40
6600	.97	.43	.77	489	.33	.44	.32	45	32
6620	1.03	.52	.87	505	.45	.42	.51	40	49
6640	1.27	.38	1.13	466	.43	.70	1.35	55	106
6660	2.08	.37	3.78	346	1.39	2.39	3.82	114	183
6680	1.11	.44	1.09	423	.48	.61	1.34	54	120
6700	1.19	.41	1.29	342	.53	.76	2.02	63	169
6720	1.02	.56	1.03	429	.58	.45	.36	44	35
6740	1.09	.46	1.00	479	.46	.54	.64	49	58
6760	1.10	.41	.99	383	.41	.58	1.17	52	106
6780	1.21	.46	1.39	341	.64	.75	2.02	61	166
6800	1.09	.39	.99	344	.39	.60	1.45	55	133
6820	1.56	.30	3.04	406	.92	2.12	2.59	135	166
6840	1.11	.49	.77	526	.38	.39	.30	35	27
6860	1.07	.52	.58	529	.30	.28	.39	26	36
6880	1.25	.46	1.26	383	.58	.68	1.38	54	110
6900	1.10	.57	.61	528	.35	.26	.32	23	29
6920	1.20	.53	.86	513	.46	.40	.66	33	55
6940	1.86	.39	2.43	339	.95	1.48	3.36	79	180
6960	1.75	.42	2.14	341	.89	1.25	3.15	71	179
6980	1.96	.41	2.92	335	1.19	1.73	3.97	88	202
7000	1.39	.43	1.15	344	.49	.66	1.98	47	142
7020	1.42	.39	1.60	343	.63	.97	2.04	68	143
7040	1.22	.51	1.09	415	.56	.53	.67	43	54
7060	1.29	.53	.95	405	.50	.45	1.00	34	77
7080	1.33	.46	1.03	384	.47	.56	1.34	42	100
7100	1.27	.54	1.08	430	.58	.50	.94	39	74
7120	1.04	.56	.81	467	.45	.36	.32	34	30
7140	1.22	.55	1.08	465	.59	.49	.29	40	23
7160	2.13	.38	2.53	345	.97	1.56	3.22	73	151
7180	1.44	.47	1.15	404	.54	.61	.42	42	29

7200	1.62	.39	2.08	342	.81	1.27	2.99	78	184
7220	1.36	.40	1.14	438	.46	.68	1.36	50	100
7240	1.68	.40	1.84	339	.74	1.10	2.54	65	151
7260	1.45	.53	1.09	439	.58	.51	.83	35	57
7280	1.61	.47	1.35	348	.64	.71	1.55	44	96
7300	1.88	.41	2.31	340	.95	1.36	2.79	72	148
7320	1.63	.50	1.32	395	.66	.66	1.66	40	101
7340	1.38	.46	1.09	429	.50	.59	1.03	42	74
7360	1.41	.62	.86	504	.53	.33	.39	23	27
7380	1.50	.54	1.10	398	.59	.51	.64	34	42
7410	1.29	.52	.96	466	.50	.46	.33	35	25
7420	1.32	.55	.76	479	.42	.34	.15	25	11
7440	1.41	.61	.87	413	.53	.34	.46	24	32
7460	1.33	.52	.86	349	.45	.41	.40	30	30
7480	1.20	.49	1.00	343	.49	.51	1.26	42	105
7500	1.93	.37	2.37	378	.88	1.49	3.02	77	156
7520	1.42	.54	.83	463	.45	.38	.44	26	30
7540	1.39	.62	.86	465	.53	.33	.36	23	25
7560	1.40	.55	.84	466	.46	.38	.49	27	35
7580	1.46	.56	.94	393	.53	.41	.42	28	28
7600	1.56	.51	.95	491	.48	.47	.73	30	46
7620	1.37	.50	.92	495	.46	.46	.34	33	24
7640	1.06	.51	.75	512	.38	.37	.21	34	19
7660	1.60	.49	1.10	366	.54	.56	.20	35	12
7680	1.65	.52	1.20	354	.63	.57	.29	34	17
7700	1.30	.51	1.00	453	.51	.49	.47	37	36
7720	1.83	.40	2.80	337	1.11	1.69	2.80	92	153
7740	2.00	.37	2.30	346	.86	1.44	2.95	71	147
7760	3.86	.48	10.46	336	5.03	5.43	7.76	140	201
7780	1.95	.44	2.15	339	.94	1.21	3.19	62	163
7800	1.82	.40	1.39	343	.56	.83	2.49	45	136
7820	1.49	.56	.62	417	.35	.27	.40	18	26
7840	1.30	.56	.66	464	.37	.29	.32	22	24
7860	.94	.47	.74	392	.35	.39	.53	41	56
7880	1.11	.57	1.20	345	.68	.52	1.05	46	94
7900	1.51	.49	3.20	368	1.57	1.63	.69	107	45
7920	1.12	.48	.98	402	.47	.51	.38	45	33
7940	.96	.53	.87	351	.46	.41	.44	42	45
7960	1.24	.54	1.25	407	.68	.57	.71	45	57
7980	1.12	.55	1.40	399	.77	.63	.54	56	48
8000	1.43	.47	1.10	404	.52	.58	.23	40	16
8020	1.55	.45	.84	464	.38	.46	.37	29	23
8040	1.63	.50	1.01	359	.51	.50	.41	30	25
8060	1.11	.47	.58	476	.27	.31	2.03	27	182
8080	1.34	.37	.86	456	.32	.54	1.65	40	123
8100	1.67	.44	.72	526	.32	.40	.41	23	24
8120	1.79	.48	.88	524	.42	.46	.46	25	25
8140	1.44	.42	.83	474	.35	.48	1.44	33	99
8160	1.63	.45	.66	559	.30	.36	.34	22	20
8180	1.29	.36	.90	431	.32	.58	1.29	44	100
8200	1.23	.51	.49	509	.25	.24	.36	19	29
8220	1.01	.56	.55	476	.31	.24	.35	23	34

8240	.94	.51	.77	360	.39	.38	.38	40	40
8260	.88	.53	.47	463	.25	.22	.15	25	17
8280	.83	.55	.51	425	.28	.23	.24	27	28
8300	.84	.56	.71	392	.40	.31	.34	36	40
8320	1.07	.53	.45	515	.24	.21	.21	19	19
8340	.88	.50	.46	459	.23	.23	.25	26	28
8360	.86	.50	.52	433	.26	.26	.12	30	13
8380	1.46	.48	.83	392	.40	.43	.22	29	15
8400	1.25	.50	.42	517	.21	.21	.14	16	11
8420	1.22	.47	.64	497	.30	.34	.65	27	53
8440	1.16	.48	.73	389	.35	.38	.35	32	30
8460	1.12	.52	.85	360	.44	.41	.47	36	41
8480	1.09	.57	.82	357	.47	.35	.25	32	22
8510	1.10	.47	.62	338	.29	.33	1.10	30	100
8540	1.40	.44	1.62	343	.72	.90	2.85	64	203
8550	1.02	.52	.48	465	.25	.23	.16	22	15
8560	.96	.50	.40	465	.20	.20	.19	20	19
8580	1.01	.49	.72	340	.35	.37	1.07	36	105
8600	.94	.54	.56	360	.30	.26	.56	27	59
8620	.84	.49	.41	410	.20	.21	.25	24	29
8640	.95	.54	.52	380	.28	.24	.11	25	11
8660	1.03	.49	.55	418	.27	.28	.23	27	22
8680	.93	.54	.89	360	.48	.41	.29	44	31

Chevron SOBC Gulf Ridge YT F-48

DEPTH	TOC	PI	S1+S2	TMAX	S1	S2	S3	HI	OI
80F	.93	.42	1.85	437	.77	1.08	.27	116	29
100F	.90	.42	1.39	438	.58	.81	.29	90	32
120	.83	.42	1.39	438	.58	.81	.34	97	40
140	.80	.33	1.02	440	.34	.68	.17	85	21
160	.98	.39	1.39	439	.54	.85	.32	86	32
180	.98	.41	1.40	442	.58	.82	.19	83	19
200	.88	.24	.92	444	.22	.70	.17	79	19
220	.97	.32	1.21	440	.39	.82	.35	84	36
240	.87	.39	1.52	436	.60	.92	.25	105	28
260	.89	.31	1.14	438	.35	.79	.52	88	58
280	.94	.34	1.18	439	.40	.78	.35	82	37
300	1.10	.38	1.54	440	.58	.96	.23	87	20
320	.99	.29	1.13	439	.33	.80	.66	80	66
340	1.28	.29	1.46	437	.42	1.04	.84	81	65
360	1.12	.27	1.24	441	.33	.91	.32	81	28
380	1.14	.31	1.37	440	.43	.94	.44	82	38
400	1.22	.28	1.30	440	.37	.93	.51	76	41
420	1.16	.38	1.44	442	.55	.89	.37	76	31
440	1.16	.32	1.22	440	.39	.83	.40	71	34
460	1.15	.35	1.42	440	.50	.92	.36	80	31
480	1.12	.34	1.43	436	.49	.94	.46	83	41
500	1.14	.29	1.27	441	.37	.90	.38	78	33
520	1.23	.32	1.53	438	.49	1.04	.43	84	34
540	1.16	.27	1.34	441	.36	.98	.34	84	29
560	1.14	.30	1.32	437	.39	.93	.56	81	49
580	1.15	.27	1.14	440	.31	.83	.46	72	40
600	1.24	.24	1.47	442	.36	1.11	.24	89	19
620	1.09	.20	1.15	438	.23	.92	.43	84	39
640	1.09	.22	1.16	440	.26	.90	.09	82	8
640	.01	0.00	.01	443	0.00	.01	.01	100	100
660	1.06	.21	1.19	440	.25	.94	.03	88	2
680	1.12	.21	1.21	442	.25	.96	.10	85	8
700	1.20	.27	1.36	439	.37	.99	.21	82	17
730	1.07	.30	1.27	436	.38	.89	.18	83	16
740	1.11	.29	1.54	439	.45	1.09	.11	98	9
760	1.03	.34	1.50	439	.51	.99	.06	96	5
780	1.09	.34	1.54	440	.53	1.01	.16	92	14
800	.85	.30	1.15	440	.34	.81	.18	95	21
820	.99	.25	1.35	438	.34	1.01	.06	102	6
840	.90	.31	.94	446	.29	.65	.01	72	1
860	1.17	.26	1.70	439	.45	1.25	.24	106	20
880	1.18	.22	1.39	440	.31	1.08	.40	91	33
920	1.03	.14	.95	441	.13	.82	.05	79	4
930	1.12	.18	1.26	441	.23	1.03	.13	91	11
940	1.34	.18	1.93	441	.35	1.58	.16	117	11
960	1.13	.15	1.36	441	.20	1.16	.25	102	22
980	1.23	.13	1.36	442	.18	1.18	.01	95	0
1000	1.28	.11	1.38	444	.15	1.23	.01	96	0
1020	1.26	.24	1.47	442	.35	1.12	.15	88	11

1040	1.20	.23	1.57	441	.36	1.21	.04	100	3
1060	1.10	.18	1.36	441	.25	1.11	.06	100	5
1080	.99	.16	1.13	439	.18	.95	.31	95	31
1100	.96	.17	1.21	439	.20	1.01	1.24	105	129
1120	1.19	.17	1.20	441	.20	1.00	1.18	84	99
1140	1.25	.22	1.53	441	.34	1.19	.61	95	48
1160	1.18	.16	1.43	441	.23	1.20	.27	101	22
1180	1.09	.15	1.72	433	.26	1.46	.38	133	34
1200	1.18	.16	1.96	437	.31	1.65	.06	139	5
1220	1.10	.15	1.87	438	.28	1.59	.01	144	0
1240	1.03	.15	1.38	438	.21	1.17	.02	113	1
1260	.88	.19	1.51	439	.29	1.22	.28	138	31
1290	1.16	.20	1.18	440	.24	.94	.19	81	16
1300	1.09	.17	1.44	440	.25	1.19	.22	109	20
1320	.12	.15	1.42	442	.21	1.21	.28	1008	233
1340	1.06	.12	1.04	443	.12	.92	.01	86	0
1360	1.01	.19	1.02	441	.19	.83	.13	82	12
1380	1.11	.26	1.38	439	.36	1.02	.01	91	0
1400	1.00	.27	1.53	439	.41	1.12	.01	111	1
1420	1.08	.25	1.59	440	.40	1.19	.16	110	14
1440	.76	.22	1.51	439	.33	1.18	.01	155	1
1460	1.00	.17	1.11	440	.19	.92	.11	92	11
1480	1.01	.21	1.26	438	.26	1.00	.19	99	18
1500	.74	.34	1.06	436	.36	.70	.16	94	21
1520	1.20	.21	1.11	435	.23	.88	.61	73	50
1540	.79	.18	.87	440	.16	.71	.01	89	1
1560	.92	.16	.97	441	.16	.81	.01	88	1
1580	.89	.29	.99	438	.29	.70	.27	78	30
1600	1.00	.19	1.20	438	.23	.97	.46	97	46
1620	1.22	.19	1.30	438	.25	1.05	.66	86	54
1640	1.37	.17	1.21	441	.21	1.00	.62	72	45
1660	1.14	.16	1.32	437	.21	1.11	.56	97	49
1680	1.22	.16	1.16	438	.18	.98	.26	80	21
1700	.95	.17	.83	438	.14	.69	.15	72	15
1720	.84	.16	1.14	442	.18	.96	.14	114	16
1740	1.26	.15	1.13	441	.17	.96	.32	76	25
1760	1.00	.25	1.07	438	.27	.80	.11	80	11
1780	.88	.22	.93	439	.20	.73	.13	82	14
1800	.67	.34	.73	436	.25	.48	.12	71	17
1820	.64	.33	.76	441	.25	.51	.03	79	4
1840	.75	.27	.81	439	.22	.59	.04	78	5
1860	.52	.21	.92	440	.19	.73	.21	140	40
1880	1.16	.23	1.06	441	.24	.82	.02	70	1
1900	.79	.29	.73	442	.21	.52	.01	65	1
1920	.79	.21	.61	439	.13	.48	.01	60	1
1940	.65	.30	.44	436	.13	.31	.01	47	1
1960	1.02	.16	.77	442	.12	.65	.17	63	16
1980	.97	.26	.93	441	.24	.69	.19	71	19
2000	1.36	.27	1.53	444	.41	1.12	.07	82	5
2020	1.34	.40	1.82	441	.72	1.10	.30	82	22
2040	1.33	.24	1.70	441	.41	1.29	.19	96	14
2060	1.14	.35	1.21	443	.42	.79	.57	69	50

2100	1.40	.25	1.61	441	.40	1.21	.41	86	29
2120	1.46	.22	1.74	441	.39	1.35	.45	92	30
2140	1.84	.27	2.22	437	.60	1.62	.88	88	47
2160	2.07	.27	2.34	437	.63	1.71	.79	82	38
2180	1.90	.21	2.10	436	.45	1.65	.77	86	40
2200	2.12	.19	2.14	440	.41	1.73	.79	81	37
2220	1.84	.16	1.93	440	.31	1.62	.50	88	27
2240	2.22	.19	2.83	444	.53	2.30	.55	103	24
2260	1.55	.21	1.57	442	.33	1.24	.63	80	40
2280	1.54	.26	1.87	440	.48	1.39	.88	90	57
2300	1.78	.23	2.14	440	.49	1.65	.67	92	37
2320	1.89	.30	2.05	443	.61	1.44	.71	76	37
2340	1.52	.27	2.21	442	.60	1.61	.35	105	23
2360	1.60	.16	1.64	442	.26	1.38	.60	86	37
2380	1.63	.20	1.72	441	.34	1.38	.68	84	41
2400	1.63	.18	1.61	441	.29	1.32	.50	80	30
2420	1.60	.18	1.64	442	.30	1.34	.54	83	33
2440	1.66	.25	1.91	442	.47	1.44	.84	86	50
2460	1.75	.23	1.85	441	.43	1.42	.82	81	46
2480	1.75	.23	1.94	438	.45	1.49	.91	85	52
2500	1.81	.26	1.99	441	.51	1.48	.99	81	54
2520	1.68	.24	2.03	441	.49	1.54	.66	91	39
2540	1.60	.15	1.52	438	.23	1.29	.96	80	60
2560	1.61	.18	1.86	440	.33	1.53	.84	95	52
2580	1.74	.22	2.07	441	.45	1.62	.82	93	47
2600	1.79	.18	1.85	440	.33	1.52	.68	84	37
2620	1.48	.23	1.77	440	.40	1.37	.86	92	58
2640	1.54	.13	1.37	441	.18	1.19	.70	77	45
2660	1.26	.16	1.28	438	.21	1.07	.57	84	45
2680	1.50	.13	1.31	441	.17	1.14	.65	76	43
2700	1.51	.11	1.26	443	.14	1.12	.56	74	37
2720	1.54	.15	1.40	441	.21	1.19	.69	77	44
2740	1.61	.15	1.37	441	.20	1.17	.73	72	45
2760	1.90	.13	1.99	440	.25	1.74	.84	91	44
2780	1.80	.14	1.67	438	.23	1.44	.73	80	40
2800	2.02	.13	2.42	439	.31	2.11	.70	104	34
2820	2.21	.11	2.62	440	.28	2.34	.65	105	29
2840	1.98	.12	2.90	438	.35	2.55	.55	128	27
2860	2.17	.12	2.65	440	.32	2.33	.63	107	29
2880	1.67	.11	2.05	438	.23	1.82	.46	108	27
2900	2.02	.11	2.35	444	.26	2.09	.50	103	24
2920	2.12	.11	2.40	440	.26	2.14	.69	100	32
2940	1.95	.13	2.47	442	.31	2.16	.58	110	29
2960	1.84	.16	2.49	439	.40	2.09	.64	113	34
2980	1.90	.15	2.10	442	.32	1.78	.67	93	35
3000	1.72	.13	1.90	440	.25	1.65	.65	95	37
3020	1.82	.17	2.32	441	.40	1.92	.71	105	39
3040	2.16	.25	3.63	438	.92	2.71	.61	125	28
3060	2.21	.14	2.65	441	.36	2.29	.57	103	25
3080	2.03	.13	2.42	438	.31	2.11	.64	103	31
3100	1.73	.14	1.98	439	.28	1.70	.72	98	41
3120	2.10	.13	2.18	439	.29	1.89	.76	90	36

3140	1.68	.14	1.77	443	.24	1.53	.65	91	38
3160	1.68	.15	1.78	442	.27	1.51	.59	89	35
3180	1.56	.19	1.59	442	.31	1.28	.73	82	46
3200	1.53	.13	1.52	443	.19	1.33	.67	86	43
3220	1.79	.14	1.94	440	.27	1.67	.81	93	45
3240	1.49	.13	1.58	442	.21	1.37	.57	91	38
3260	1.45	.14	1.70	441	.24	1.46	.60	100	41
3280	1.30	.14	1.45	440	.20	1.25	.40	96	30
3300	1.79	.12	2.05	439	.25	1.80	.57	100	31
3320	1.42	.15	1.73	442	.26	1.47	.54	103	38
3340	1.67	.14	1.91	440	.27	1.64	.44	98	26
3360	1.75	.18	2.10	440	.37	1.73	.45	98	25
3380	1.85	.13	2.08	442	.27	1.81	.62	97	33
3400	1.85	.15	2.11	441	.32	1.79	.60	96	32
3420	1.78	.16	2.19	441	.34	1.85	.43	103	24
3440	2.58	.16	3.09	442	.50	2.59	.96	100	37
3460	2.20	.12	2.57	442	.31	2.26	.76	102	34
3480	2.01	.13	2.55	443	.33	2.22	.65	110	32
3500	1.77	.12	2.08	445	.25	1.83	.51	103	28
3520	2.03	.12	2.49	442	.31	2.18	.50	107	24
3540	2.02	.12	2.52	444	.31	2.21	.62	109	30
3560	2.11	.13	2.34	445	.30	2.04	.59	96	27
3580	2.00	.12	2.44	444	.29	2.15	.47	107	23
3600	2.08	.11	2.66	445	.29	2.37	.53	113	25
3620	1.99	.14	2.38	443	.34	2.04	.75	102	37
3640	1.72	.14	1.80	444	.25	1.55	.47	90	27
3660	1.73	.14	1.87	444	.27	1.60	.51	92	29
3680	1.87	.14	2.21	444	.31	1.90	.50	101	26
3700	1.81	.13	1.88	445	.25	1.63	.46	90	25
3720	1.77	.12	1.66	444	.20	1.46	.37	82	20
3740	1.74	.13	1.84	444	.24	1.60	.41	91	23
3760	1.70	.14	1.60	447	.22	1.38	.40	81	23
3780	1.83	.12	1.74	443	.21	1.53	.50	83	27
3800	1.86	.12	2.04	446	.24	1.80	.49	96	26
3820	1.72	.12	2.03	443	.25	1.78	.26	103	15
3840	1.63	.25	2.20	443	.55	1.65	.71	101	43
3860	1.41	.22	1.98	444	.43	1.55	.51	109	36
3880	1.44	.20	2.00	447	.40	1.60	.30	111	20
3900	1.43	.19	1.75	445	.33	1.42	.33	99	23
3920	1.18	.20	1.42	446	.28	1.14	.10	96	8
3940	1.12	.20	1.96	445	.39	1.57	.12	140	10
3960	.93	.19	1.67	447	.31	1.36	.08	146	8
3980	.88	.27	1.39	446	.37	1.02	.23	115	26
4000	1.11	.19	1.66	446	.32	1.34	.29	120	26
4020	.70	.27	1.13	446	.31	.82	.13	117	18
4040	.69	.25	1.51	446	.38	1.13	.12	163	17
4060	.72	.33	1.42	443	.47	.95	.20	131	27
4080	.91	.18	1.94	446	.34	1.60	.03	175	3
4080	.01	0.00	.01	444	0.00	.01	.01	100	100
4100	.96	.23	1.89	444	.44	1.45	.16	151	16
4120	1.08	.22	2.52	446	.55	1.97	.15	182	13
4140	1.09	.23	2.28	446	.53	1.75	.18	160	16

4160	1.35	.16	3.04	445	.50	2.54	.16	188	11
4180	1.11	.17	1.69	446	.29	1.40	.32	126	28
4200	1.00	.29	1.93	444	.56	1.37	.18	137	18
4220	.86	.19	1.55	446	.29	1.26	.28	146	32
4240	.89	.23	2.04	442	.47	1.57	.37	176	41
4260	1.11	.22	2.95	444	.65	2.30	.40	207	36
4280	.71	.19	1.18	444	.23	.95	.38	133	53
4300	.77	.20	1.28	444	.25	1.03	.33	133	42
4320	.58	.25	1.05	445	.26	.79	.27	136	46
4340	.61	.22	1.04	445	.23	.81	.11	132	18
4360	.77	.18	1.30	445	.24	1.06	.29	137	37
4380	.74	.20	1.21	446	.24	.97	.28	131	37
4400	.88	.20	1.37	443	.28	1.09	.55	123	62
4420	1.22	.16	2.18	445	.34	1.84	.35	150	28
4440	1.60	.14	3.18	441	.43	2.75	.50	171	31
4460	1.37	.20	2.18	445	.44	1.74	.47	127	34
4480	1.16	.18	1.75	444	.32	1.43	.57	123	49
4500	.88	.19	1.59	445	.31	1.28	.41	145	46
4520	1.23	.15	2.09	442	.32	1.77	.41	143	33
4540	1.18	.17	1.89	441	.33	1.56	.42	132	35
4560	1.34	.19	2.25	440	.42	1.83	.56	136	41
4580	1.22	.19	2.25	444	.42	1.83	.40	150	32
4600	1.29	.19	2.42	444	.45	1.97	.41	152	31
4620	1.19	.19	1.90	444	.36	1.54	.51	129	42
4640	.86	.20	1.48	446	.29	1.19	.28	138	32
4660	1.10	.22	1.95	438	.43	1.52	.48	138	43
4680	.94	.32	1.81	441	.58	1.23	.49	130	52
4710	.99	.32	1.86	443	.60	1.26	.46	127	46
4720	.65	.29	1.14	442	.33	.81	.16	124	24
4740	.85	.25	1.46	444	.36	1.10	.11	129	12
4760	1.08	.30	2.17	441	.66	1.51	.32	139	29
4780	1.02	.30	1.72	448	.52	1.20	.21	117	20
4800	.94	.29	1.61	446	.46	1.15	.56	122	59
4820	.56	.36	1.21	448	.43	.78	.09	139	16
4840	.52	.35	.99	450	.35	.64	.05	123	9
4860	.54	.32	1.02	450	.33	.69	.07	127	12
4880	1.11	.23	2.31	446	.53	1.78	.13	160	11
4900	.91	.26	1.63	445	.43	1.20	.23	131	25
4920	.66	.33	.96	448	.32	.64	.18	96	27
4940	.93	.35	1.76	445	.62	1.14	.30	122	32
4960	.79	.31	1.36	443	.42	.94	.30	118	37
4980	.69	.32	1.23	443	.39	.84	.18	121	26
5000	.46	.38	.87	446	.33	.54	.10	117	21
5030	.12	.48	.44	452	.21	.23	.05	191	41
5040	.92	.30	1.56	442	.47	1.09	.40	118	43
5060	.92	.41	2.64	442	1.07	1.57	.31	170	33
5080	.83	.33	1.59	445	.52	1.07	.22	128	26
5100	.66	.37	1.42	448	.52	.90	.17	136	25
5120	1.19	.38	3.34	445	1.28	2.06	.48	173	40
5140	.29	.40	.65	450	.26	.39	.11	134	37
5160	.23	.45	.53	450	.24	.29	.11	126	47
5180	.17	.47	.38	450	.18	.20	.03	117	17

5200	.15	.55	.42	448	.23	.19	.09	126	60
5220	.42	.41	1.09	448	.45	.64	.06	152	14
5240	.75	.29	1.53	442	.44	1.09	.19	145	25
5260	.79	.22	1.03	445	.23	.80	.33	101	41
5280	1.02	.22	1.62	443	.35	1.27	.32	124	31
5300	1.65	.17	2.42	444	.40	2.02	.48	122	29
5320	1.57	.24	2.44	445	.58	1.86	.64	118	40
5340	1.33	.24	2.40	445	.58	1.82	.39	136	29
5360	.96	.24	1.44	443	.34	1.10	.30	114	31
5380	.99	.20	1.43	447	.29	1.14	.22	115	22
5400	1.27	.15	1.51	445	.22	1.29	.50	101	39
5420	1.06	.16	1.28	446	.21	1.07	.25	100	23
5440	.92	.25	1.44	447	.36	1.08	.34	117	36
5460	.94	.23	1.36	447	.31	1.05	.45	111	47
5480	.92	.23	1.21	447	.28	.93	.55	101	59
5500	.55	.30	.67	450	.20	.47	.52	85	94
5520	.70	.29	.86	448	.25	.61	.43	87	61
5540	.81	.24	1.15	445	.28	.87	.32	107	39
5560	.69	.35	.99	444	.35	.64	.46	92	66
5580	.63	.33	.76	460	.25	.51	.39	80	61
5600	.45	.40	.57	465	.23	.34	.16	75	35
5620	.91	.21	1.00	446	.21	.79	.31	86	34
5640	.65	.40	.92	450	.37	.55	.20	84	30
5660	.07	.37	.78	459	.29	.49	.27	700	385
5680	.54	.36	.61	468	.22	.39	.29	72	53
5700	.53	.41	.58	474	.24	.34	.29	64	54
5720	.80	.32	1.21	447	.39	.82	.35	102	43
5740	.77	.33	.95	451	.31	.64	.30	83	38
5760	1.57	.26	1.68	448	.44	1.24	.42	78	26
5780	1.00	.31	1.18	440	.37	.81	.36	81	36
5800	.83	.35	.86	454	.30	.56	.27	67	32
5830	1.05	.38	1.54	441	.58	.96	.52	91	49
5840	.79	.30	.90	451	.27	.63	.26	79	32
5860	.92	.33	1.10	453	.36	.74	.27	80	29
5880	.87	.34	.95	449	.32	.63	.38	72	43
5900	.68	.34	.91	445	.31	.60	.29	88	42
5920	.54	.39	.59	450	.23	.36	.13	66	24
5940	.89	.27	1.20	448	.32	.88	.29	98	32
5960	.85	.36	1.28	441	.46	.82	.25	96	29
5980	.50	.37	.70	443	.26	.44	.13	88	26
6000	.82	.35	1.07	445	.37	.70	.39	85	47
6020	.54	.43	.77	449	.33	.44	.23	81	42
6040	.59	.43	.80	446	.34	.46	.34	77	57
6060	.46	.48	.64	459	.31	.33	.19	71	41
6080	.64	.50	1.14	439	.57	.57	.26	89	40
6100	.59	.38	.73	447	.28	.45	.17	76	28
6120	1.02	.24	1.26	444	.30	.96	.32	94	31