



| CASING TABLE: 4 inch – 5 ½ inch |        |       |       |       |                |
|---------------------------------|--------|-------|-------|-------|----------------|
| O.D.                            | Weight | Wall  | I.D.  | Drift | Max O.D. Liner |
| 4                               | 9.500  | 0.226 | 3.548 | 3.423 | 2.875          |
| 4                               | 11.000 | 0.262 | 3.476 | 3.351 | 2.375          |
| 4                               | 11.600 | 0.286 | 3.428 | 3.303 |                |
| 4                               | 13.400 | 0.330 | 3.340 | 3.215 |                |
| 4                               | 19.000 | 0.500 | 3.000 | 2.945 |                |
| 4                               | 22.500 | 0.610 | 2.780 | 2.728 |                |
|                                 |        |       |       |       |                |
| 4 ½                             | 9.500  | 0.205 | 4.090 | 3.965 | 2.875          |
| 4 ½                             | 10.500 | 0.224 | 4.052 | 3.927 | 2.875          |
| 4 ½                             | 11.000 | 0.273 | 4.026 | 3.901 | 2.875          |
| 4 ½                             | 11.600 | 0.250 | 4.000 | 3.875 | 2.875          |
| 4 ½                             | 12.600 | 0.271 | 3.958 | 3.833 | 2.875          |
| 4 ½                             | 12.750 | 0.271 | 3.958 | 3.833 |                |
| 4 ½                             | 13.500 | 0.290 | 3.920 | 3.795 | 2.875          |
| 4 ½                             | 15.100 | 0.337 | 3.826 | 3.701 |                |
| 4 ½                             | 16.600 | 0.373 | 3.754 | 3.629 | 2.375          |
| 4 ½                             | 16.800 | 0.373 | 3.754 | 3.629 |                |
| 4 ½                             | 17.100 | 0.373 | 3.754 | 3.629 |                |
| 4 ½                             | 16.900 | 0.380 | 3.740 | 3.615 |                |
| 4 ½                             | 18.800 | 0.430 | 3.640 | 3.515 |                |
| 4 ½                             | 19.200 | 0.430 | 3.640 | 3.515 |                |
| 4 ½                             | 21.600 | 0.500 | 3.500 | 3.375 |                |
| 4 ½                             | 24.600 | 0.560 | 3.380 | 3.255 |                |
| 4 ½                             | 26.500 | 0.630 | 3.240 | 3.115 |                |
|                                 |        |       |       |       |                |
| 4 ¾                             | 16.000 | 0.334 | 4.082 | 3.957 |                |
|                                 |        |       |       |       |                |
| 5                               | 11.500 | 0.220 | 4.560 | 4.435 | 3.5            |
| 5                               | 13.000 | 0.253 | 4.494 | 4.369 | 3.5            |
| 5                               | 15.000 | 0.296 | 4.408 | 4.283 | 3.5            |
| 5                               | 17.000 | 0.350 | 4.300 | 4.175 |                |
| 5                               | 18.000 | 0.362 | 4.276 | 4.151 | 3.5            |
| 5                               | 20.300 | 0.408 | 4.184 | 4.059 |                |
| 5                               | 20.800 | 0.422 | 4.156 | 4.031 |                |
| 5                               | 21.000 | 0.423 | 4.154 | 4.029 |                |
| 5                               | 21.400 | 0.437 | 4.126 | 4.001 |                |
| 5                               | 23.200 | 0.478 | 4.044 | 3.919 |                |
| 5                               | 24.700 | 0.500 | 4.000 | 3.875 |                |
| 5                               | 26.700 | 0.562 | 3.876 | 3.751 |                |
| 5                               | 29.200 | 0.625 | 3.750 | 3.625 |                |
| 5                               | 31.600 | 0.687 | 3.626 | 3.501 |                |
| 5                               | 34.000 | 0.750 | 3.500 | 3.375 |                |
|                                 |        |       |       |       |                |
| 5 ½                             | 13.000 | 0.288 | 5.044 | 4.919 | 4              |
| 5 ½                             | 14.000 | 0.244 | 5.012 | 4.887 | 4              |
| 5 ½                             | 15.500 | 0.275 | 4.950 | 4.825 | 4              |
| 5 ½                             | 17.000 | 0.304 | 4.892 | 4.767 | 4              |
| 5 ½                             | 20.000 | 0.361 | 4.778 | 4.653 | 4              |
| 5 ½                             | 23.000 | 0.415 | 4.670 | 4.545 | 4              |
| 5 ½                             | 23.800 | 0.437 | 4.626 | 4.501 |                |
| 5 ½                             | 26.000 | 0.476 | 4.548 | 4.423 |                |
| 5 ½                             | 26.800 | 0.500 | 4.500 | 4.375 |                |
| 5 ½                             | 28.400 | 0.530 | 4.440 | 4.315 |                |
| 5 ½                             | 29.700 | 0.562 | 4.376 | 4.251 |                |

| CASING TABLE: 5 ½ inch – 7 inch |        |       |       |       |                |
|---------------------------------|--------|-------|-------|-------|----------------|
| O.D.                            | Weight | Wall  | I.D.  | Drift | Max O.D. Liner |
| 5 ½                             | 32.300 | 0.612 | 4.276 | 4.151 |                |
| 5 ½                             | 32.600 | 0.625 | 4.250 | 4.125 |                |
| 5 ½                             | 35.300 | 0.687 | 4.126 | 4.001 |                |
| 5 ½                             | 36.400 | 0.705 | 4.090 | 3.965 |                |
| 5 ½                             | 38.000 | 0.750 | 4.000 | 3.875 |                |
| 5 ½                             | 40.500 | 0.812 | 3.876 | 3.751 |                |
| 5 ½                             | 43.100 | 0.875 | 3.750 | 3.625 |                |
|                                 |        |       |       |       |                |
| 5 ⅝                             | 26.700 | 0.477 | 4.671 | 4.544 |                |
|                                 |        |       |       |       |                |
| 5 ¾                             | 14.000 | 0.230 | 5.290 | 5.165 |                |
| 5 ¾                             | 17.000 | 0.280 | 5.190 | 5.065 |                |
| 5 ¾                             | 19.500 | 0.330 | 5.090 | 4.965 |                |
| 5 ¾                             | 22.500 | 0.380 | 4.990 | 4.865 |                |
|                                 |        |       |       |       |                |
| 6                               | 15.000 | 0.238 | 5.290 | 5.165 | 4              |
| 6                               | 16.000 | 0.250 | 5.500 | 5.375 |                |
| 6                               | 18.000 | 0.288 | 5.424 | 5.299 | 4              |
| 6                               | 20.000 | 0.324 | 5.352 | 5.227 | 4              |
| 6                               | 23.000 | 0.380 | 5.240 | 5.115 | 4              |
| 6                               | 26.000 | 0.434 | 5.132 | 5.007 |                |
|                                 |        |       |       |       |                |
| 6 ⅝                             | 17.000 | 0.245 | 6.135 | 6.010 |                |
| 6 ⅝                             | 20.000 | 0.288 | 6.049 | 5.924 | 5              |
| 6 ⅝                             | 22.000 | 0.318 | 5.989 | 5.864 |                |
| 6 ⅝                             | 23.200 | 0.330 | 5.965 | 5.845 |                |
| 6 ⅝                             | 24.000 | 0.352 | 5.921 | 5.796 | 5              |
| 6 ⅝                             | 26.000 | 0.385 | 5.855 | 5.730 |                |
| 6 ⅝                             | 26.800 | 0.394 | 5.837 | 5.712 |                |
| 6 ⅝                             | 28.000 | 0.417 | 5.791 | 5.666 | 4.5            |
| 6 ⅝                             | 29.000 | 0.432 | 5.761 | 5.636 |                |
| 6 ⅝                             | 32.000 | 0.475 | 5.675 | 5.550 | 4.5            |
| 6 ⅝                             | 33.000 | 0.500 | 5.625 | 5.500 |                |
| 6 ⅝                             | 34.500 | 0.525 | 5.575 | 5.450 |                |
| 6 ⅝                             | 36.700 | 0.562 | 5.501 | 5.376 |                |
| 6 ⅝                             | 40.200 | 0.625 | 5.375 | 5.250 |                |
| 6 ⅝                             | 43.700 | 0.687 | 5.251 | 5.126 |                |
| 6 ⅝                             | 47.100 | 0.750 | 5.125 | 5.000 |                |
| 6 ⅝                             | 50.400 | 0.812 | 5.001 | 4.876 |                |
| 6 ⅝                             | 53.700 | 0.875 | 4.875 | 4.750 |                |
| 6 ⅝                             | 56.800 | 0.937 | 4.751 | 4.626 |                |
| 6 ⅝                             | 59.900 | 1.000 | 4.625 | 4.625 |                |
| 6 ⅝                             | 62.900 | 1.062 | 4.501 | 4.376 |                |
| 6 ⅝                             | 65.800 | 1.125 | 4.375 | 4.250 |                |
| 6 ⅝                             | 71.300 | 1.250 | 4.125 | 4.000 |                |
|                                 |        |       |       |       |                |
| 7                               | 17.000 | 0.231 | 6.538 | 6.413 | 5.5            |
| 7                               | 20.000 | 0.272 | 6.456 | 6.331 | 5.5            |
| 7                               | 22.000 | 0.301 | 6.398 | 6.273 |                |
| 7                               | 23.000 | 0.317 | 6.366 | 6.241 | 5              |
| 7                               | 24.000 | 0.332 | 6.336 | 6.211 |                |
| 7                               | 26.000 | 0.362 | 6.276 | 6.151 | 5              |
| 7                               | 28.000 | 0.393 | 6.214 | 6.089 |                |
| 7                               | 29.000 | 0.408 | 6.184 | 6.059 | 5              |
| 7                               | 30.000 | 0.423 | 6.154 | 6.029 |                |

| CASING TABLE: 7 inch – 8 ¾ inch |        |       |       |       |                |
|---------------------------------|--------|-------|-------|-------|----------------|
| O.D.                            | Weight | Wall  | I.D.  | Drift | Max O.D. Liner |
| 7                               | 32.000 | 0.453 | 6.094 | 5.969 | 5              |
| 7                               | 35.000 | 0.498 | 6.004 | 5.879 | 5              |
| 7                               | 38.000 | 0.540 | 5.920 | 5.795 | 4.5            |
| 7                               | 40.000 | 0.582 | 5.836 | 5.711 |                |
| 7                               | 41.000 | 0.590 | 5.820 | 5.695 |                |
| 7                               | 42.700 | 0.625 | 5.750 | 5.625 |                |
| 7                               | 44.000 | 0.640 | 5.720 | 5.595 |                |
| 7                               | 45.400 | 0.670 | 5.660 | 5.535 |                |
| 7                               | 46.400 | 0.687 | 5.626 | 5.501 |                |
| 7                               | 49.200 | 0.730 | 5.540 | 5.415 |                |
| 7                               | 49.500 | 0.730 | 5.540 | 5.415 |                |
| 7                               | 50.100 | 0.750 | 5.500 | 5.375 |                |
| 7                               | 53.600 | 0.812 | 5.376 | 5.251 |                |
| 7                               | 57.100 | 0.875 | 5.250 | 5.125 |                |
| 7                               | 60.500 | 0.937 | 5.126 | 5.001 |                |
| 7                               | 63.900 | 1.000 | 5.000 | 4.875 |                |
|                                 |        |       |       |       |                |
| 7 ⅝                             | 20.000 | 0.250 | 7.125 | 7.000 | 6              |
| 7 ⅝                             | 24.000 | 0.300 | 7.025 | 6.900 | 5.5            |
| 7 ⅝                             | 26.400 | 0.328 | 6.969 | 6.844 | 5.5            |
| 7 ⅝                             | 29.700 | 0.375 | 6.875 | 6.750 | 5.5            |
| 7 ⅝                             | 33.700 | 0.430 | 6.765 | 6.640 | 5.5            |
| 7 ⅝                             | 39.000 | 0.500 | 6.625 | 6.500 | 5.5            |
| 7 ⅝                             | 42.800 | 0.562 | 6.501 | 6.376 |                |
| 7 ⅝                             | 45.300 | 0.595 | 6.435 | 6.310 |                |
| 7 ⅝                             | 47.100 | 0.625 | 6.375 | 6.250 |                |
| 7 ⅝                             | 51.200 | 0.687 | 6.251 | 6.126 |                |
| 7 ⅝                             | 52.800 | 0.712 | 6.210 | 6.076 |                |
| 7 ⅝                             | 53.200 | 0.712 | 6.210 | 6.076 |                |
| 7 ⅝                             | 55.300 | 0.750 | 6.125 | 6.000 |                |
| 7 ⅝                             | 59.200 | 0.812 | 6.001 | 5.876 |                |
| 7 ⅝                             | 63.200 | 0.875 | 5.875 | 5.750 |                |
| 7 ⅝                             | 66.900 | 0.937 | 5.751 | 5.626 |                |
| 7 ⅝                             | 70.700 | 1.000 | 5.625 | 5.500 |                |
| 7 ⅝                             | 74.300 | 1.062 | 5.501 | 5.375 |                |
| 7 ⅝                             | 77.900 | 1.125 | 5.375 | 5.250 |                |
| 7 ⅝                             | 82.100 | 1.200 | 5.225 | 5.100 |                |
| 7 ⅝                             | 84.800 | 1.250 | 5.125 | 5.000 |                |
|                                 |        |       |       |       |                |
| 7 ¾                             | 46.100 | 0.595 | 6.560 | 6.500 |                |
| 7 ¾                             | 48.600 | 0.640 | 6.470 | 6.345 |                |
| 7 ¾                             | 52.500 | 0.688 | 6.374 | 6.250 |                |
|                                 |        |       |       |       |                |
| 8 ⅝                             | 24.000 | 0.264 | 8.097 | 7.972 | 6.625          |
| 8 ⅝                             | 28.000 | 0.304 | 8.017 | 7.892 | 6.625          |
| 8 ⅝                             | 32.000 | 0.352 | 7.921 | 7.796 | 6.625          |
| 8 ⅝                             | 36.000 | 0.400 | 7.825 | 7.700 | 6.625          |
| 8 ⅝                             | 38.000 | 0.425 | 7.775 | 7.650 | 6.625          |
| 8 ⅝                             | 40.000 | 0.450 | 7.725 | 7.600 | 6.625          |
| 8 ⅝                             | 43.000 | 0.487 | 7.651 | 7.526 |                |
| 8 ⅝                             | 44.000 | 0.500 | 7.625 | 7.500 | 6.625          |
| 8 ⅝                             | 49.000 | 0.557 | 7.511 | 7.386 | 6              |
| 8 ⅝                             | 49.100 | 0.562 | 7.501 | 7.376 |                |
| 8 ⅝                             | 52.000 | 0.595 | 7.435 | 7.310 |                |
| 8 ⅝                             | 54.000 | 0.625 | 7.375 | 7.25  |                |
| 8 ⅝                             | 58.700 | 0.687 | 7.251 | 7.128 |                |
| 8 ⅝                             | 63.500 | 0.750 | 7.125 | 7.000 |                |
| 8 ⅝                             | 68.100 | 0.812 | 7.001 | 6.876 |                |
| 8 ⅝                             | 72.700 | 0.875 | 6.875 | 6.750 |                |
| 8 ⅝                             | 77.100 | 0.937 | 6.751 | 6.626 |                |
|                                 |        |       |       |       |                |
| 8 ¾                             | 49.700 | 0.557 | 7.636 | 7.500 |                |

| CASING TABLE: 9 inch – 11 ⅞ inch |         |       |        |        |                |
|----------------------------------|---------|-------|--------|--------|----------------|
| O.D.                             | Weight  | Wall  | I.D.   | Drift  | Max O.D. Liner |
| 9                                | 34.000  | 0.355 | 8.290  | 8.165  |                |
| 9                                | 38.000  | 0.402 | 8.196  | 8.071  |                |
| 9                                | 40.000  | 0.425 | 8.150  | 8.025  |                |
| 9                                | 45.000  | 0.484 | 8.032  | 7.907  |                |
| 9                                | 55.000  | 0.594 | 7.812  | 7.687  |                |
|                                  |         |       |        |        |                |
| 9 ⅝                              | 29.300  | 0.281 | 9.063  | 8.907  | 7.625          |
| 9 ⅝                              | 32.300  | 0.312 | 9.001  | 8.845  | 7.625          |
| 9 ⅝                              | 36.000  | 0.352 | 8.921  | 8.765  | 7.625          |
| 9 ⅝                              | 40.000  | 0.395 | 8.835  | 8.679  | 7.625          |
| 9 ⅝                              | 43.500  | 0.435 | 8.755  | 8.599  | 7.625          |
| 9 ⅝                              | 47.000  | 0.472 | 8.681  | 8.525  | 7.625          |
| 9 ⅝                              | 53.500  | 0.545 | 8.535  | 8.379  | 7.625          |
| 9 ⅝                              | 58.400  | 0.595 | 8.435  | 8.279  |                |
| 9 ⅝                              | 59.400  | 0.609 | 8.407  | 8.251  |                |
| 9 ⅝                              | 61.100  | 0.625 | 8.375  | 8.219  |                |
| 9 ⅝                              | 64.900  | 0.672 | 8.281  | 8.125  |                |
| 9 ⅝                              | 70.300  | 0.734 | 8.157  | 8.001  |                |
| 9 ⅝                              | 71.800  | 0.750 | 8.125  | 7.969  |                |
| 9 ⅝                              | 75.600  | 0.797 | 8.031  | 7.875  |                |
| 9 ⅝                              | 80.800  | 0.859 | 7.907  | 7.751  |                |
| 9 ⅝                              | 86.000  | 0.922 | 7.781  | 7.625  |                |
| 9 ⅝                              | 91.000  | 0.984 | 7.657  | 7.501  |                |
| 9 ⅝                              | 92.700  | 1.000 | 7.625  | 7.500  |                |
|                                  |         |       |        |        |                |
| 9 ¾                              | 59.200  | 0.595 | 8.560  | 8.500  |                |
|                                  |         |       |        |        |                |
| 9 ⅞                              | 62.800  | 0.625 | 8.625  | 8.500  |                |
|                                  |         |       |        |        |                |
| 10                               | 33.000  | 0.308 | 9.384  | 9.228  |                |
|                                  |         |       |        |        |                |
| 10 ¾                             | 32.750  | 0.279 | 10.192 | 10.036 | 9              |
| 10 ¾                             | 40.000  | 0.348 | 10.054 | 9.898  | 8.625          |
| 10 ¾                             | 40.500  | 0.350 | 10.050 | 9.894  |                |
| 10 ¾                             | 45.000  | 0.395 | 9.960  | 9.804  |                |
| 10 ¾                             | 45.500  | 0.400 | 9.950  | 9.794  | 8.625          |
| 10 ¾                             | 48.000  | 0.424 | 9.902  | 9.746  |                |
| 10 ¾                             | 51.000  | 0.450 | 9.850  | 9.694  | 8.625          |
| 10 ¾                             | 54.000  | 0.483 | 9.784  | 9.628  |                |
| 10 ¾                             | 55.500  | 0.495 | 9.760  | 9.604  | 8.625          |
| 10 ¾                             | 60.700  | 0.545 | 9.660  | 9.504  |                |
| 10 ¾                             | 65.700  | 0.625 | 9.500  | 9.404  |                |
| 10 ¾                             | 71.100  | 0.650 | 9.450  | 9.294  |                |
| 10 ¾                             | 73.200  | 0.672 | 9.406  | 9.25   |                |
| 10 ¾                             | 79.200  | 0.734 | 9.282  | 9.126  |                |
| 10 ¾                             | 85.300  | 0.797 | 9.156  | 9.000  |                |
| 10 ¾                             | 91.200  | 0.859 | 9.032  | 8.876  |                |
| 10 ¾                             | 97.100  | 0.922 | 8.906  | 8.750  |                |
| 10 ¾                             | 102.900 | 0.984 | 8.782  | 8.626  |                |
| 10 ¾                             | 108.700 | 1.047 | 8.656  | 8.500  |                |
| 10 ¾                             | 109.000 | 1.033 | 8.684  | 8.528  |                |
|                                  |         |       |        |        |                |
| 11 ¾                             | 38.000  | 0.300 | 11.150 | 10.994 | 9.625          |
| 11 ¾                             | 42.000  | 0.333 | 11.084 | 10.928 | 9.625          |
| 11 ¾                             | 47.000  | 0.375 | 11.000 | 10.844 | 9.625          |
| 11 ¾                             | 54.000  | 0.435 | 10.880 | 10.724 | 9.625          |
| 11 ¾                             | 60.000  | 0.489 | 10.772 | 10.616 | 9.625          |
| 11 ¾                             | 65.000  | 0.534 | 10.682 | 10.526 | 9.625          |
| 11 ¾                             | 71.000  | 0.582 | 10.586 | 10.430 | 9.625          |
| 11 ¾                             | 83.000  | 0.691 | 10.368 | 10.125 |                |
|                                  |         |       |        |        |                |
| 11 ⅞                             | 71.800  | 0.582 | 10.711 | 10.625 |                |



| CASING TABLE: 12 inch – 24 ½ inch |         |       |        |        |                |
|-----------------------------------|---------|-------|--------|--------|----------------|
| O.D.                              | Weight  | Wall  | I.D.   | Drift  | Max O.D. Liner |
| 12                                | 40.000  | 0.308 | 11.384 | 11.228 |                |
| 13                                | 40.000  | 0.281 | 12.438 | 12.282 | 11.75          |
| 13                                | 45.000  | 0.320 | 12.360 | 12.204 | 11.75          |
| 13                                | 50.000  | 0.359 | 12.282 | 12.126 | 10.75          |
| 13                                | 54.000  | 0.390 | 12.220 | 12.064 | 10.75          |
| 13 ⅜                              | 48.000  | 0.330 | 12.715 | 12.559 | 11.75          |
| 13 ⅜                              | 54.500  | 0.380 | 12.615 | 12.459 | 11.75          |
| 13 ⅜                              | 61.000  | 0.430 | 12.515 | 12.359 | 11.75          |
| 13 ⅜                              | 68.000  | 0.480 | 12.415 | 12.259 | 11.75          |
| 13 ⅜                              | 72.000  | 0.514 | 12.347 | 12.191 | 11.75          |
| 13 ⅜                              | 77.000  | 0.550 | 12.275 | 12.119 | 10.75          |
| 13 ⅜                              | 80.700  | 0.580 | 12.215 | 12.059 | 10.75          |
| 13 ⅜                              | 83.000  | 0.600 | 12.175 | 12.019 | 10.75          |
| 13 ⅜                              | 85.000  | 0.608 | 12.159 | 12.003 | 10.75          |
| 13 ⅜                              | 86.000  | 0.625 | 12.125 | 11.969 | 10.75          |
| 13 ⅜                              | 92.000  | 0.672 | 12.031 | 11.875 | 10.75          |
| 13 ⅜                              | 98.000  | 0.719 | 11.937 | 11.781 | 10.75          |
| 13 ⅜                              | 100.030 | 0.734 | 11.907 | 11.751 | 10.75          |
| 13 ½                              | 81.400  | 0.580 | 12.340 | 12.250 | 11.75          |
| 13 ⅝                              | 88.200  | 0.625 | 12.375 | 12.250 | 11.75          |
| 14                                | 92.700  | 0.650 | 12.700 |        |                |
| 14                                | 99.400  | 0.700 | 12.600 |        |                |
| 14                                | 106.100 | 0.750 | 12.500 |        |                |
| 14                                | 112.800 | 0.800 | 12.400 |        |                |
| 14                                | 119.400 | 0.850 | 12.300 |        |                |
| 16                                | 55.000  | 0.313 | 15.375 | 15.187 | 13.375         |
| 16                                | 65.000  | 0.375 | 15.250 | 15.062 | 13.375         |
| 16                                | 75.000  | 0.438 | 15.125 | 14.937 | 13.375         |
| 16                                | 84.000  | 0.495 | 15.010 | 14.822 | 13.375         |
| 16                                | 109.000 | 0.656 | 14.688 | 14.500 | 11.75          |
| 16                                | 128.000 | 0.781 | 14.438 | 14.250 | 11.75          |
| 16                                | 146.000 | 0.906 | 14.188 | 14.000 | 11.75          |
| 16 ⅛                              | 95.600  | 0.566 | 14.933 | 14.806 | 13.375         |
| 18 ⅝                              | 78.000  | 0.385 | 17.855 | 17.667 | 14             |
| 18 ⅝                              | 87.500  | 0.435 | 17.755 | 17.567 | 14             |
| 18 ⅝                              | 94.500  | 0.468 | 17.689 | 17.501 | 14             |
| 18 ⅝                              | 96.500  | 0.485 | 17.655 | 17.467 | 14             |
| 18 ⅝                              | 97.700  | 0.486 | 17.653 | 17.465 | 13.375         |
| 18 ⅝                              | 106.000 | 0.531 | 17.563 | 17.375 | 13.375         |
| 18 ⅝                              | 117.500 | 0.593 | 17.439 | 17.251 | 13.375         |
| 20                                | 90.000  | 0.405 | 19.190 | 19.002 | 16             |
| 20                                | 94.000  | 0.438 | 19.124 | 18.936 |                |
| 20                                | 106.500 | 0.500 | 19.000 | 18.812 |                |
| 20                                | 131.000 | 0.625 | 18.750 | 18.562 |                |
| 20                                | 133.000 | 0.635 | 18.730 | 18.542 |                |
| 20                                | 163.000 | 0.781 | 18.438 | 18.250 |                |
| 20                                | 169.000 | 0.812 | 18.376 | 18.188 |                |
| 20                                | 175.000 | 0.843 | 18.314 | 18.126 |                |
| 20                                | 187.000 | 0.906 | 18.188 | 18.000 |                |
| 21 ½                              | 92.500  | 0.395 | 20.710 | 20.522 | 18.625         |
| 21 ½                              | 103.000 | 0.445 | 20.610 | 20.422 |                |
| 21 ½                              | 114.000 | 0.495 | 20.510 | 20.322 |                |
| 24 ½                              | 100.500 | 0.375 | 23.750 | 23.562 | 20             |
| 24 ½                              | 113.000 | 0.425 | 23.650 | 23.650 |                |

| TUBING TABLE: 1.000 inch – 3.500 inch |               |       |             |       |       |       |       |
|---------------------------------------|---------------|-------|-------------|-------|-------|-------|-------|
| O.D.                                  | Weight API NU | EUE   | Non-API NOM | P-E   | Wall  | I.D.  | Drift |
| 1.000                                 | 1.14          | 1.20  |             |       | 0.113 | 0.824 | 0.730 |
| 1.050                                 |               |       | 1.50        | 1.47  | 0.154 | 0.742 | 0.648 |
| 1.315                                 | 1.70          | 1.80  |             |       | 0.133 | 1.049 | 0.955 |
| 1.315                                 |               |       | 2.25        | 2.17  | 0.179 | 0.957 | 0.848 |
| 1.660                                 | 2.30          | 2.40  |             |       | 0.140 | 1.380 | 1.288 |
| 1.860                                 |               |       | 3.02        | 2.99  | 0.191 | 1.278 | 1.184 |
| 1.860                                 |               |       | 3.24        | 3.09  | 0.198 | 1.264 | 1.170 |
| 1.900                                 | 2.75          | 2.90  |             |       | 0.145 | 1.610 | 1.516 |
| 1.900                                 |               |       | 3.64        | 3.63  | 0.200 | 1.500 | 1.406 |
| 1.900                                 |               |       | 4.19        | 3.93  | 0.219 | 1.462 | 1.368 |
| 2.000                                 |               |       | 3.40        | 3.23  | 0.165 | 1.670 | 1.576 |
| 2.063                                 | 3.25          |       | 3.40        | 3.18  | 0.157 | 1.750 | 1.656 |
| 2.063                                 |               |       | 4.50        |       | 0.255 | 1.613 |       |
| 2.375                                 | 4.00          |       |             |       | 0.167 | 2.041 | 1.947 |
| 2.375                                 | 4.60          | 4.70  |             |       | 0.190 | 1.995 | 1.901 |
| 2.375                                 |               |       | 5.30        | 5.01  | 0.218 | 1.939 | 1.845 |
| 2.375                                 | 5.80          | 5.95  |             |       | 0.254 | 1.867 | 1.773 |
| 2.375                                 |               |       | 6.20        | 5.89  | 0.261 | 1.853 | 1.759 |
| 2.375                                 | 6.30          | 6.65  | 6.65        | 6.26  | 0.280 | 1.615 | 1.721 |
| 2.375                                 | 7.30          | 7.70  |             |       | 0.336 | 1.703 | 1.609 |
| 2.875                                 | 6.40          | 6.50  |             |       | 0.217 | 2.441 | 2.347 |
| 2.875                                 | 7.70          | 7.90  |             |       | 0.276 | 2.323 | 2.229 |
| 2.875                                 | 8.60          | 8.70  |             | 8.44  | 0.308 | 2.259 | 2.165 |
| 2.875                                 |               |       | 9.50        | 9.78  | 0.340 | 2.195 | 2.101 |
| 2.875                                 | 9.80          | 10.40 |             |       | 0.362 | 2.151 | 2.057 |
| 2.875                                 |               |       | 10.70       | 10.39 | 0.392 | 2.091 | 1.997 |
| 2.875                                 |               |       | 11.00       | 10.66 | 0.405 | 2.065 | 1.971 |
| 2.875                                 |               |       | 11.65       | 11.44 | 0.440 | 1.995 | 1.901 |
| 3.500                                 |               |       | 7.70        | 7.57  | 0.216 | 3.068 | 2.943 |
| 3.500                                 | 9.20          | 9.30  | 9.30        | 8.81  | 0.254 | 2.992 | 2.867 |
| 3.500                                 | 10.20         | 10.30 | 10.30       | 9.91  | 0.289 | 2.922 | 2.797 |
| 3.500                                 | 12.70         | 12.95 |             |       | 0.375 | 2.750 | 2.625 |
| 3.500                                 |               |       | 13.70       | 13.60 | 0.414 | 2.673 | 2.548 |
| 3.500                                 |               |       | 15.50       | 14.62 | 0.449 | 2.602 | 2.477 |
| 3.500                                 |               |       | 15.80       | 15.37 | 0.476 | 2.548 | 2.423 |
| 3.500                                 |               |       | 15.80       | 15.68 | 0.488 | 2.524 | 2.399 |
| 3.500                                 |               |       | 16.70       | 16.28 | 0.510 | 2.480 | 2.355 |
| 3.500                                 |               |       | 17.05       | 16.81 | 0.530 | 2.440 | 2.315 |