



BARGE "MAP-704"  
MARATHON ASHLAND PETROLEUM  
OUTAGE TABLE

1 PORT

| BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |        |     |        |     |        |     |        |     |        | HULL NO. 2144-1 |        |     |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----------------|--------|-----|--|--|--|--|--|--|--|--|--|
| N                                                        | 0 FT.    | N   | 1 FT.    | N   | 2 FT.    | N   | 3 FT.    | N   | 4 FT.    | N   | 5 FT.    | N   | 6 FT.    | N   | 7 FT.    | N   | 8 FT.    | N   | 9 FT.  | N   | 10 FT. | N   | 11 FT. | N   | 12 FT. | N   | 13 FT. | N               | 14 FT. |     |  |  |  |  |  |  |  |  |  |
| 0                                                        |          | 0   | 3,657.55 | 0   | 3,292.56 | 0   | 2,927.57 | 0   | 2,565.58 | 0   | 2,205.25 | 0   | 1,844.91 | 0   | 1,484.58 | 0   | 1,124.24 | 0   | 763.90 | 0   | 421.54 | 0   | 122.69 | 0   |        | 0   |        |                 |        |     |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,862.42 | 1/4 | 3,649.95 | 1/4 | 3,284.96 | 1/4 | 2,919.96 | 1/4 | 2,558.08 | 1/4 | 2,197.74 | 1/4 | 1,837.40 | 1/4 | 1,477.07 | 1/4 | 1,116.73 | 1/4 | 756.40 | 1/4 | 415.38 | 1/4 | 116.70 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,862.06 | 1/2 | 3,642.34 | 1/2 | 3,277.35 | 1/2 | 2,912.36 | 1/2 | 2,550.57 | 1/2 | 2,190.23 | 1/2 | 1,829.90 | 1/2 | 1,469.56 | 1/2 | 1,109.23 | 1/2 | 748.81 | 1/2 | 409.23 | 1/2 | 110.72 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,861.70 | 3/4 | 3,634.74 | 3/4 | 3,269.75 | 3/4 | 2,904.76 | 3/4 | 2,543.06 | 3/4 | 2,182.73 | 3/4 | 1,822.39 | 3/4 | 1,462.05 | 3/4 | 1,101.72 | 3/4 | 741.21 | 3/4 | 403.07 | 3/4 | 104.74 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 1                                                        | 3,861.35 | 1   | 3,627.14 | 1   | 3,262.14 | 1   | 2,897.15 | 1   | 2,535.56 | 1   | 2,175.22 | 1   | 1,814.88 | 1   | 1,454.55 | 1   | 1,094.21 | 1   | 733.62 | 1   | 396.91 | 1   | 98.75  | 1   | 1      | 1   | 1      | 1               | 1      | 1   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,860.99 | 1/4 | 3,619.53 | 1/4 | 3,254.54 | 1/4 | 2,889.55 | 1/4 | 2,528.05 | 1/4 | 2,167.71 | 1/4 | 1,807.38 | 1/4 | 1,447.04 | 1/4 | 1,086.70 | 1/4 | 726.03 | 1/4 | 390.75 | 1/4 | 92.77  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,859.87 | 1/2 | 3,611.93 | 1/2 | 3,246.94 | 1/2 | 2,881.94 | 1/2 | 2,520.54 | 1/2 | 2,160.21 | 1/2 | 1,799.87 | 1/2 | 1,439.53 | 1/2 | 1,079.20 | 1/2 | 718.70 | 1/2 | 384.32 | 1/2 | 87.96  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,858.75 | 3/4 | 3,604.32 | 3/4 | 3,239.33 | 3/4 | 2,874.34 | 3/4 | 2,515.03 | 3/4 | 2,152.70 | 3/4 | 1,792.36 | 3/4 | 1,432.03 | 3/4 | 1,071.69 | 3/4 | 711.37 | 3/4 | 377.89 | 3/4 | 83.14  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 2                                                        | 3,857.63 | 2   | 3,596.72 | 2   | 3,231.73 | 2   | 2,866.74 | 2   | 2,505.53 | 2   | 2,145.19 | 2   | 1,784.86 | 2   | 1,424.52 | 2   | 1,064.18 | 2   | 704.04 | 2   | 371.46 | 2   | 78.33  | 2   | 2      | 2   | 2      | 2               | 2      | 2   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,856.51 | 1/4 | 3,589.12 | 1/4 | 3,224.12 | 1/4 | 2,859.13 | 1/4 | 2,498.02 | 1/4 | 2,137.68 | 1/4 | 1,777.35 | 1/4 | 1,417.01 | 1/4 | 1,056.68 | 1/4 | 696.71 | 1/4 | 365.02 | 1/4 | 73.52  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,854.63 | 1/2 | 3,581.51 | 1/2 | 3,216.52 | 1/2 | 2,851.53 | 1/2 | 2,490.51 | 1/2 | 2,130.18 | 1/2 | 1,769.84 | 1/2 | 1,409.51 | 1/2 | 1,049.17 | 1/2 | 689.38 | 1/2 | 358.59 | 1/2 | 68.71  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,852.74 | 3/4 | 3,573.91 | 3/4 | 3,208.92 | 3/4 | 2,843.92 | 3/4 | 2,483.01 | 3/4 | 2,122.67 | 3/4 | 1,762.33 | 3/4 | 1,402.00 | 3/4 | 1,041.66 | 3/4 | 682.05 | 3/4 | 352.16 | 3/4 | 63.90  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 3                                                        | 3,850.86 | 3   | 3,566.30 | 3   | 3,201.31 | 3   | 2,836.32 | 3   | 2,475.50 | 3   | 2,115.16 | 3   | 1,754.83 | 3   | 1,394.49 | 3   | 1,034.16 | 3   | 674.72 | 3   | 345.73 | 3   | 59.08  | 3   | 3      | 3   | 3      | 3               | 3      | 3   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,848.98 | 1/4 | 3,558.70 | 1/4 | 3,193.71 | 1/4 | 2,828.72 | 1/4 | 2,467.99 | 1/4 | 2,107.66 | 1/4 | 1,747.32 | 1/4 | 1,386.98 | 1/4 | 1,026.65 | 1/4 | 667.39 | 1/4 | 339.30 | 1/4 | 54.27  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,846.33 | 1/2 | 3,551.10 | 1/2 | 3,186.10 | 1/2 | 2,821.11 | 1/2 | 2,460.49 | 1/2 | 2,100.15 | 1/2 | 1,739.81 | 1/2 | 1,379.48 | 1/2 | 1,019.14 | 1/2 | 660.06 | 1/2 | 332.86 | 1/2 | 49.27  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,843.68 | 3/4 | 3,543.49 | 3/4 | 3,178.50 | 3/4 | 2,813.51 | 3/4 | 2,452.98 | 3/4 | 2,092.64 | 3/4 | 1,732.31 | 3/4 | 1,371.97 | 3/4 | 1,011.63 | 3/4 | 652.73 | 3/4 | 326.43 | 3/4 | 44.27  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 4                                                        | 3,841.04 | 4   | 3,535.89 | 4   | 3,170.90 | 4   | 2,805.90 | 4   | 2,445.47 | 4   | 2,085.14 | 4   | 1,724.80 | 4   | 1,364.46 | 4   | 1,004.13 | 4   | 645.40 | 4   | 320.00 | 4   | 39.28  | 4   | 4      | 4   | 4      | 4               | 4      | 4   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,838.39 | 1/4 | 3,528.28 | 1/4 | 3,163.29 | 1/4 | 2,798.30 | 1/4 | 2,437.96 | 1/4 | 2,077.63 | 1/4 | 1,717.29 | 1/4 | 1,356.96 | 1/4 | 996.62   | 1/4 | 638.07 | 1/4 | 313.57 | 1/4 | 34.28  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,834.98 | 1/2 | 3,520.68 | 1/2 | 3,155.69 | 1/2 | 2,790.79 | 1/2 | 2,430.46 | 1/2 | 2,070.12 | 1/2 | 1,709.79 | 1/2 | 1,349.45 | 1/2 | 989.11   | 1/2 | 630.74 | 1/2 | 307.14 | 1/2 | 30.35  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,831.57 | 3/4 | 3,513.08 | 3/4 | 3,148.08 | 3/4 | 2,783.29 | 3/4 | 2,422.95 | 3/4 | 2,062.61 | 3/4 | 1,702.28 | 3/4 | 1,341.94 | 3/4 | 981.61   | 3/4 | 623.41 | 3/4 | 300.70 | 3/4 | 26.42  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 5                                                        | 3,828.17 | 5   | 3,505.47 | 5   | 3,140.48 | 5   | 2,775.78 | 5   | 2,415.44 | 5   | 2,055.11 | 5   | 1,694.77 | 5   | 1,334.44 | 5   | 974.10   | 5   | 616.08 | 5   | 294.27 | 5   | 22.49  | 5   | 5      | 5   | 5      | 5               | 5      | 5   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,824.76 | 1/4 | 3,497.87 | 1/4 | 3,132.88 | 1/4 | 2,768.27 | 1/4 | 2,407.94 | 1/4 | 2,047.60 | 1/4 | 1,687.26 | 1/4 | 1,326.93 | 1/4 | 966.59   | 1/4 | 608.75 | 1/4 | 287.84 | 1/4 | 18.56  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,820.59 | 1/2 | 3,490.26 | 1/2 | 3,125.27 | 1/2 | 2,760.77 | 1/2 | 2,400.43 | 1/2 | 2,040.09 | 1/2 | 1,679.76 | 1/2 | 1,319.42 | 1/2 | 959.09   | 1/2 | 601.42 | 1/2 | 281.41 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,816.41 | 3/4 | 3,482.66 | 3/4 | 3,117.67 | 3/4 | 2,753.26 | 3/4 | 2,392.92 | 3/4 | 2,032.59 | 3/4 | 1,672.25 | 3/4 | 1,311.91 | 3/4 | 951.58   | 3/4 | 594.09 | 3/4 | 274.98 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 6                                                        | 3,812.24 | 6   | 3,475.06 | 6   | 3,110.06 | 6   | 2,745.75 | 6   | 2,385.42 | 6   | 2,025.08 | 6   | 1,664.74 | 6   | 1,304.41 | 6   | 944.07   | 6   | 586.76 | 6   | 268.54 | 6   |        | 6   | 6      | 6   | 6      | 6               | 6      | 6   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,808.07 | 1/4 | 3,467.45 | 1/4 | 3,102.46 | 1/4 | 2,738.24 | 1/4 | 2,377.91 | 1/4 | 2,017.57 | 1/4 | 1,657.24 | 1/4 | 1,296.90 | 1/4 | 936.56   | 1/4 | 579.43 | 1/4 | 262.11 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,803.14 | 1/2 | 3,459.85 | 1/2 | 3,094.86 | 1/2 | 2,730.74 | 1/2 | 2,370.40 | 1/2 | 2,010.07 | 1/2 | 1,649.73 | 1/2 | 1,289.39 | 1/2 | 929.06   | 1/2 | 572.10 | 1/2 | 255.68 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,798.20 | 3/4 | 3,452.24 | 3/4 | 3,087.25 | 3/4 | 2,723.23 | 3/4 | 2,362.89 | 3/4 | 2,002.56 | 3/4 | 1,642.22 | 3/4 | 1,281.89 | 3/4 | 921.55   | 3/4 | 564.77 | 3/4 | 249.25 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 7                                                        | 3,793.27 | 7   | 3,444.64 | 7   | 3,079.65 | 7   | 2,715.72 | 7   | 2,355.39 | 7   | 1,995.05 | 7   | 1,634.72 | 7   | 1,274.38 | 7   | 914.04   | 7   | 557.44 | 7   | 242.82 | 7   |        | 7   | 7      | 7   | 7      | 7               | 7      | 7   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,788.34 | 1/4 | 3,437.04 | 1/4 | 3,072.04 | 1/4 | 2,708.22 | 1/4 | 2,347.88 | 1/4 | 1,987.54 | 1/4 | 1,627.21 | 1/4 | 1,266.87 | 1/4 | 906.54   | 1/4 | 550.11 | 1/4 | 236.38 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4             | 1/4    | 1/4 |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,782.64 | 1/2 | 3,429.43 | 1/2 | 3,064.44 | 1/2 | 2,700.71 | 1/2 | 2,340.37 | 1/2 | 1,980.04 | 1/2 | 1,619.70 | 1/2 | 1,259.37 | 1/2 | 899.03   | 1/2 | 543.23 | 1/2 | 230.40 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2             | 1/2    | 1/2 |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,776.94 | 3/4 | 3,421.83 | 3/4 | 3,056.84 | 3/4 | 2,693.20 | 3/4 | 2,332.87 | 3/4 | 1,972.53 | 3/4 | 1,612.19 | 3/4 | 1,251.86 | 3/4 | 891.52   | 3/4 | 536.35 | 3/4 | 224.42 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4             | 3/4    | 3/4 |  |  |  |  |  |  |  |  |  |
| 8                                                        | 3,771.25 | 8   | 3,414.22 | 8   | 3,049.23 | 8   | 2,685.70 | 8   | 2,325.36 | 8   | 1,965.02 | 8   | 1,604.69 | 8   | 1,244.35 | 8   | 884.02   | 8   | 529.47 | 8   | 218.43 | 8   |        | 8   | 8      | 8   | 8      | 8               | 8      | 8   |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,765.55 | 1/4 | 3,406.62 | 1/4 | 3,041.63 | 1/4 | 2,678.19 | 1/4 | 2,317.85 | 1/4 | 1,957.52 | 1/4 | 1,597.18 | 1/4 | 1,236.84 |     |          |     |        |     |        |     |        |     |        |     |        |                 |        |     |  |  |  |  |  |  |  |  |  |





BARGE "MAP-704"  
MARATHON ASHLAND PETROLEUM  
OUTAGE TABLE

1 STAR

| BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |        |     |        |     |        |     |        |     |        | HULL NO. 2144-1 |        |     |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----------------|--------|-----|--|--|--|--|--|--|--|--|--|--|--|
| N                                                        | 0 FT.    | N   | 1 FT.    | N   | 2 FT.    | N   | 3 FT.    | N   | 4 FT.    | N   | 5 FT.    | N   | 6 FT.    | N   | 7 FT.    | N   | 8 FT.    | N   | 9 FT.  | N   | 10 FT. | N   | 11 FT. | N   | 12 FT. | N   | 13 FT. | N               | 14 FT. |     |  |  |  |  |  |  |  |  |  |  |  |
| 0                                                        |          | 0   | 3,672.76 | 0   | 3,307.77 | 0   | 2,942.78 | 0   | 2,580.60 | 0   | 2,220.26 | 0   | 1,859.93 | 0   | 1,499.59 | 0   | 1,139.25 | 0   | 778.92 | 0   | 433.86 | 0   | 134.66 | 0   |        | 0   |        | 0               |        | 0   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,665.16 | 1/4 | 3,300.16 | 1/4 | 2,935.17 | 1/4 | 2,573.09 | 1/4 | 2,212.75 | 1/4 | 1,852.42 | 1/4 | 1,492.08 | 1/4 | 1,131.75 | 1/4 | 771.41   | 1/4 | 427.70 | 1/4 | 128.67 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,657.55 | 1/2 | 3,292.56 | 1/2 | 2,927.57 | 1/2 | 2,565.58 | 1/2 | 2,205.25 | 1/2 | 1,844.91 | 1/2 | 1,484.58 | 1/2 | 1,124.24 | 1/2 | 763.90   | 1/2 | 421.54 | 1/2 | 122.69 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,649.95 | 3/4 | 3,284.96 | 3/4 | 2,919.96 | 3/4 | 2,558.08 | 3/4 | 2,197.74 | 3/4 | 1,837.40 | 3/4 | 1,477.07 | 3/4 | 1,116.73 | 3/4 | 756.40   | 3/4 | 415.38 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                        | 3,642.34 | 1   | 3,277.35 | 1   | 2,912.36 | 1   | 2,550.57 | 1   | 2,190.23 | 1   | 1,829.39 | 1   | 1,469.56 | 1   | 1,109.23 | 1   | 748.81   | 1   | 409.23 | 1   | 110.72 | 1   |        | 1   |        | 1   |        | 1               |        | 1   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,634.74 | 1/4 | 3,269.75 | 1/4 | 2,904.76 | 1/4 | 2,543.06 | 1/4 | 2,182.73 | 1/4 | 1,822.39 | 1/4 | 1,462.05 | 1/4 | 1,101.72 | 1/4 | 741.21   | 1/4 | 403.07 | 1/4 | 104.74 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,627.14 | 1/2 | 3,262.14 | 1/2 | 2,897.15 | 1/2 | 2,535.56 | 1/2 | 2,175.22 | 1/2 | 1,814.88 | 1/2 | 1,454.55 | 1/2 | 1,094.21 | 1/2 | 733.62   | 1/2 | 396.91 | 1/2 | 98.75  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,619.53 | 3/4 | 3,254.54 | 3/4 | 2,889.55 | 3/4 | 2,528.05 | 3/4 | 2,167.71 | 3/4 | 1,807.38 | 3/4 | 1,447.04 | 3/4 | 1,086.70 | 3/4 | 726.03   | 3/4 | 390.75 | 3/4 | 92.77  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                        | 3,611.93 | 2   | 3,246.94 | 2   | 2,881.94 | 2   | 2,520.54 | 2   | 2,160.21 | 2   | 1,799.87 | 2   | 1,439.53 | 2   | 1,079.20 | 2   | 718.70   | 2   | 384.32 | 2   | 87.96  | 2   |        | 2   |        | 2   |        | 2               |        | 2   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,604.32 | 1/4 | 3,239.33 | 1/4 | 2,874.34 | 1/4 | 2,513.03 | 1/4 | 2,152.70 | 1/4 | 1,792.36 | 1/4 | 1,432.03 | 1/4 | 1,071.69 | 1/4 | 711.37   | 1/4 | 377.89 | 1/4 | 83.14  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,596.72 | 1/2 | 3,231.73 | 1/2 | 2,866.74 | 1/2 | 2,505.53 | 1/2 | 2,145.19 | 1/2 | 1,784.86 | 1/2 | 1,424.52 | 1/2 | 1,064.18 | 1/2 | 704.04   | 1/2 | 371.46 | 1/2 | 78.33  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,589.12 | 3/4 | 3,224.12 | 3/4 | 2,859.13 | 3/4 | 2,498.02 | 3/4 | 2,137.68 | 3/4 | 1,777.35 | 3/4 | 1,417.01 | 3/4 | 1,056.68 | 3/4 | 696.71   | 3/4 | 365.02 | 3/4 | 73.52  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                        | 3,581.51 | 3   | 3,216.52 | 3   | 2,851.53 | 3   | 2,490.51 | 3   | 2,130.18 | 3   | 1,769.84 | 3   | 1,409.51 | 3   | 1,049.17 | 3   | 689.38   | 3   | 358.59 | 3   | 68.71  | 3   |        | 3   |        | 3   |        | 3               |        | 3   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,573.91 | 1/4 | 3,208.92 | 1/4 | 2,843.92 | 1/4 | 2,483.01 | 1/4 | 2,122.67 | 1/4 | 1,762.33 | 1/4 | 1,402.00 | 1/4 | 1,041.66 | 1/4 | 682.05   | 1/4 | 352.16 | 1/4 | 63.90  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,566.30 | 1/2 | 3,201.31 | 1/2 | 2,836.32 | 1/2 | 2,475.50 | 1/2 | 2,115.16 | 1/2 | 1,754.83 | 1/2 | 1,394.49 | 1/2 | 1,034.16 | 1/2 | 674.72   | 1/2 | 345.73 | 1/2 | 59.08  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,558.70 | 3/4 | 3,193.71 | 3/4 | 2,828.72 | 3/4 | 2,467.99 | 3/4 | 2,107.66 | 3/4 | 1,747.32 | 3/4 | 1,386.98 | 3/4 | 1,026.65 | 3/4 | 667.39   | 3/4 | 339.30 | 3/4 | 54.27  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                        | 3,551.10 | 4   | 3,186.10 | 4   | 2,821.11 | 4   | 2,460.49 | 4   | 2,100.15 | 4   | 1,739.81 | 4   | 1,379.48 | 4   | 1,019.14 | 4   | 660.06   | 4   | 332.86 | 4   | 49.27  | 4   |        | 4   |        | 4   |        | 4               |        | 4   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,543.49 | 1/4 | 3,178.50 | 1/4 | 2,813.51 | 1/4 | 2,452.98 | 1/4 | 2,092.64 | 1/4 | 1,732.31 | 1/4 | 1,371.97 | 1/4 | 1,011.63 | 1/4 | 652.73   | 1/4 | 326.43 | 1/4 | 44.27  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,535.89 | 1/2 | 3,170.90 | 1/2 | 2,805.90 | 1/2 | 2,445.47 | 1/2 | 2,085.14 | 1/2 | 1,724.80 | 1/2 | 1,364.46 | 1/2 | 1,004.43 | 1/2 | 645.40   | 1/2 | 320.00 | 1/2 | 39.28  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,528.28 | 3/4 | 3,163.29 | 3/4 | 2,798.30 | 3/4 | 2,437.96 | 3/4 | 2,077.63 | 3/4 | 1,717.29 | 3/4 | 1,356.96 | 3/4 | 996.62   | 3/4 | 638.07   | 3/4 | 313.57 | 3/4 | 34.28  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                        | 3,520.68 | 5   | 3,155.69 | 5   | 2,790.79 | 5   | 2,430.46 | 5   | 2,070.12 | 5   | 1,709.79 | 5   | 1,349.45 | 5   | 989.11   | 5   | 630.74   | 5   | 307.14 | 5   | 30.35  | 5   |        | 5   |        | 5   |        | 5               |        | 5   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,513.08 | 1/4 | 3,148.08 | 1/4 | 2,783.29 | 1/4 | 2,422.95 | 1/4 | 2,062.61 | 1/4 | 1,702.28 | 1/4 | 1,341.94 | 1/4 | 981.61   | 1/4 | 623.41   | 1/4 | 300.70 | 1/4 | 26.42  | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,505.47 | 1/2 | 3,140.48 | 1/2 | 2,775.78 | 1/2 | 2,415.44 | 1/2 | 2,055.11 | 1/2 | 1,694.77 | 1/2 | 1,334.44 | 1/2 | 974.10   | 1/2 | 616.08   | 1/2 | 294.27 | 1/2 | 22.49  | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,497.87 | 3/4 | 3,132.88 | 3/4 | 2,768.27 | 3/4 | 2,407.93 | 3/4 | 2,047.60 | 3/4 | 1,687.26 | 3/4 | 1,326.93 | 3/4 | 966.59   | 3/4 | 608.75   | 3/4 | 287.84 | 3/4 | 18.56  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                        | 3,490.26 | 6   | 3,125.27 | 6   | 2,760.77 | 6   | 2,400.43 | 6   | 2,040.09 | 6   | 1,679.76 | 6   | 1,319.42 | 6   | 959.09   | 6   | 601.42   | 6   | 281.41 | 6   |        | 6   |        | 6   |        | 6   |        | 6               |        | 6   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,482.66 | 1/4 | 3,117.67 | 1/4 | 2,753.26 | 1/4 | 2,392.92 | 1/4 | 2,032.59 | 1/4 | 1,672.25 | 1/4 | 1,311.91 | 1/4 | 951.58   | 1/4 | 594.09   | 1/4 | 274.98 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,475.06 | 1/2 | 3,110.06 | 1/2 | 2,745.75 | 1/2 | 2,385.42 | 1/2 | 2,025.08 | 1/2 | 1,664.74 | 1/2 | 1,304.41 | 1/2 | 944.07   | 1/2 | 586.76   | 1/2 | 268.54 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,467.45 | 3/4 | 3,102.46 | 3/4 | 2,738.24 | 3/4 | 2,377.91 | 3/4 | 2,017.57 | 3/4 | 1,657.24 | 3/4 | 1,296.90 | 3/4 | 936.56   | 3/4 | 579.43   | 3/4 | 262.11 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                        | 3,459.85 | 7   | 3,094.86 | 7   | 2,730.74 | 7   | 2,370.40 | 7   | 2,010.07 | 7   | 1,649.73 | 7   | 1,289.39 | 7   | 929.06   | 7   | 572.10   | 7   | 255.68 | 7   |        | 7   |        | 7   |        | 7   |        | 7               |        | 7   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,452.24 | 1/4 | 3,087.25 | 1/4 | 2,723.23 | 1/4 | 2,362.89 | 1/4 | 2,002.96 | 1/4 | 1,642.22 | 1/4 | 1,281.89 | 1/4 | 921.55   | 1/4 | 564.77   | 1/4 | 249.25 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,444.64 | 1/2 | 3,079.65 | 1/2 | 2,715.72 | 1/2 | 2,355.39 | 1/2 | 1,995.05 | 1/2 | 1,634.72 | 1/2 | 1,274.38 | 1/2 | 914.04   | 1/2 | 557.44   | 1/2 | 242.82 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,437.04 | 3/4 | 3,072.04 | 3/4 | 2,708.22 | 3/4 | 2,347.88 | 3/4 | 1,987.54 | 3/4 | 1,627.21 | 3/4 | 1,266.87 | 3/4 | 906.54   | 3/4 | 550.11   | 3/4 | 236.38 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        | 3/4             |        | 3/4 |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                        | 3,429.43 | 8   | 3,064.44 | 8   | 2,700.71 | 8   | 2,340.37 | 8   | 1,980.04 | 8   | 1,619.70 | 8   | 1,259.37 | 8   | 899.03   | 8   | 543.23   | 8   | 230.40 | 8   |        | 8   |        | 8   |        | 8   |        | 8               |        | 8   |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,421.83 | 1/4 | 3,056.84 | 1/4 | 2,693.20 | 1/4 | 2,332.87 | 1/4 | 1,972.53 | 1/4 | 1,612.19 | 1/4 | 1,251.86 | 1/4 | 891.52   | 1/4 | 536.35   | 1/4 | 224.42 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        | 1/4             |        | 1/4 |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,414.22 | 1/2 | 3,049.23 | 1/2 | 2,685.70 | 1/2 | 2,325.36 | 1/2 | 1,965.02 | 1/2 | 1,604.69 | 1/2 | 1,244.35 | 1/2 | 884.02   | 1/2 | 529.47   | 1/2 | 218.43 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        | 1/2             |        | 1/2 |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,406.62 | 3/4 | 3,041.63 | 3/4 | 2,678.19 | 3/4 | 2,317.85 | 3/4 | 1,957.52 | 3/4 | 1,597.18 | 3/4 | 1,238.84 | 3/4 | 876.51   | 3/4 | 522.59   | 3/4 | 212.45 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 | </     |                 |        |     |  |  |  |  |  |  |  |  |  |  |  |





BARGE "MAP-704"  
MARATHON ASHLAND PETROLEUM  
OUTAGE TABLE

2 PORT

| BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |        |     |        |     |         |     |        |     |        | HULL NO. 2144-1 |        |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|---------|-----|--------|-----|--------|-----------------|--------|--|--|--|--|--|--|--|--|--|--|
| N                                                        | 0 FT.    | N   | 1 FT.    | N   | 2 FT.    | N   | 3 FT.    | N   | 4 FT.    | N   | 5 FT.    | N   | 6 FT.    | N   | 7 FT.    | N   | 8 FT.    | N   | 9 FT.  | N   | 10 FT. | N   | 11 FT.  | N   | 12 FT. | N   | 13 FT. | N               | 14 FT. |  |  |  |  |  |  |  |  |  |  |
| 0                                                        | 3,939.95 | 0   | 3,737.53 | 0   | 3,389.68 | 0   | 3,041.82 | 0   | 2,681.42 | 0   | 2,314.75 | 0   | 1,948.08 | 0   | 1,581.40 | 0   | 1,214.73 | 0   | 848.06 | 0   | 485.75 | 0   | 139.64  | 0   |        | 0   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,939.61 | 1/4 | 3,730.29 | 1/4 | 3,382.43 | 1/4 | 3,034.57 | 1/4 | 2,673.78 | 1/4 | 2,307.11 | 1/4 | 1,940.44 | 1/4 | 1,573.77 | 1/4 | 1,207.09 | 1/4 | 840.42 | 1/4 | 479.20 | 1/4 | 132.37  | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,939.27 | 1/2 | 3,723.04 | 1/2 | 3,375.18 | 1/2 | 3,027.33 | 1/2 | 2,666.14 | 1/2 | 2,299.47 | 1/2 | 1,932.80 | 1/2 | 1,566.13 | 1/2 | 1,199.45 | 1/2 | 832.78 | 1/2 | 472.66 | 1/2 | 125.09  | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,938.94 | 3/4 | 3,715.79 | 3/4 | 3,367.94 | 3/4 | 3,020.08 | 3/4 | 2,658.50 | 3/4 | 2,291.83 | 3/4 | 1,925.16 | 3/4 | 1,558.49 | 3/4 | 1,191.82 | 3/4 | 825.14 | 3/4 | 466.11 | 3/4 | 117.82  | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1                                                        | 3,938.60 | 1   | 3,708.54 | 1   | 3,360.69 | 1   | 3,012.83 | 1   | 2,650.86 | 1   | 2,284.19 | 1   | 1,917.52 | 1   | 1,550.85 | 1   | 1,184.18 | 1   | 817.50 | 1   | 459.56 | 1   | 110.55  | 1   |        | 1   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,937.53 | 1/4 | 3,701.30 | 1/4 | 3,353.44 | 1/4 | 3,005.59 | 1/4 | 2,643.23 | 1/4 | 2,276.55 | 1/4 | 1,909.88 | 1/4 | 1,543.21 | 1/4 | 1,176.54 | 1/4 | 809.87 | 1/4 | 452.29 | 1/4 | 104.00  | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,936.46 | 1/2 | 3,694.05 | 1/2 | 3,346.19 | 1/2 | 2,998.34 | 1/2 | 2,635.59 | 1/2 | 2,268.91 | 1/2 | 1,902.24 | 1/2 | 1,535.57 | 1/2 | 1,168.90 | 1/2 | 802.23 | 1/2 | 445.02 | 1/2 | 97.46   | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,935.40 | 3/4 | 3,686.80 | 3/4 | 3,338.95 | 3/4 | 2,991.09 | 3/4 | 2,627.95 | 3/4 | 2,261.28 | 3/4 | 1,894.60 | 3/4 | 1,527.93 | 3/4 | 1,161.26 | 3/4 | 794.59 | 3/4 | 437.75 | 3/4 | 90.91   | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 2                                                        | 3,934.33 | 2   | 3,679.56 | 2   | 3,331.70 | 2   | 2,983.84 | 2   | 2,620.31 | 2   | 2,253.64 | 2   | 1,886.96 | 2   | 1,520.29 | 2   | 1,153.62 | 2   | 786.95 | 2   | 430.48 | 2   | 84.36   | 2   |        | 2   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,932.54 | 1/4 | 3,672.31 | 1/4 | 3,324.45 | 1/4 | 2,976.60 | 1/4 | 2,612.67 | 1/4 | 2,246.00 | 1/4 | 1,879.33 | 1/4 | 1,512.65 | 1/4 | 1,145.98 | 1/4 | 779.31 | 1/4 | 423.21 | 1/4 | 77.81   | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,930.75 | 1/2 | 3,665.06 | 1/2 | 3,317.21 | 1/2 | 2,969.35 | 1/2 | 2,605.03 | 1/2 | 2,238.36 | 1/2 | 1,871.69 | 1/2 | 1,505.01 | 1/2 | 1,138.34 | 1/2 | 771.67 | 1/2 | 415.93 | 1/2 | 71.26   | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,928.95 | 3/4 | 3,657.82 | 3/4 | 3,309.96 | 3/4 | 2,962.10 | 3/4 | 2,597.39 | 3/4 | 2,230.72 | 3/4 | 1,864.05 | 3/4 | 1,497.38 | 3/4 | 1,130.70 | 3/4 | 764.03 | 3/4 | 408.66 | 3/4 | 64.72   | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3                                                        | 3,927.16 | 3   | 3,650.57 | 3   | 3,302.71 | 3   | 2,954.86 | 3   | 2,589.75 | 3   | 2,223.08 | 3   | 1,856.41 | 3   | 1,489.74 | 3   | 1,123.06 | 3   | 756.39 | 3   | 401.39 | 3   | 58.17   | 3   |        | 3   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,924.64 | 1/4 | 3,643.32 | 1/4 | 3,295.47 | 1/4 | 2,947.61 | 1/4 | 2,582.11 | 1/4 | 2,215.44 | 1/4 | 1,848.77 | 1/4 | 1,482.10 | 1/4 | 1,115.43 | 1/4 | 748.75 | 1/4 | 394.12 | 1/4 | 51.81   | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,922.12 | 1/2 | 3,636.07 | 1/2 | 3,288.22 | 1/2 | 2,940.36 | 1/2 | 2,574.47 | 1/2 | 2,207.80 | 1/2 | 1,841.13 | 1/2 | 1,474.46 | 1/2 | 1,107.79 | 1/2 | 741.11 | 1/2 | 386.85 | 1/2 | 45.44   | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,919.60 | 3/4 | 3,628.83 | 3/4 | 3,280.97 | 3/4 | 2,933.12 | 3/4 | 2,566.84 | 3/4 | 2,200.16 | 3/4 | 1,833.49 | 3/4 | 1,466.82 | 3/4 | 1,100.15 | 3/4 | 733.48 | 3/4 | 379.58 | 3/4 | 39.08   | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 4                                                        | 3,917.08 | 4   | 3,621.58 | 4   | 3,273.72 | 4   | 2,925.87 | 4   | 2,559.20 | 4   | 2,192.52 | 4   | 1,825.85 | 4   | 1,459.18 | 4   | 1,092.51 | 4   | 725.84 | 4   | 372.31 | 4   | 32.72   | 4   |        | 4   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,913.83 | 1/4 | 3,614.33 | 1/4 | 3,266.48 | 1/4 | 2,918.23 | 1/4 | 2,551.56 | 1/4 | 2,184.89 | 1/4 | 1,818.21 | 1/4 | 1,451.54 | 1/4 | 1,084.87 | 1/4 | 718.20 | 1/4 | 365.04 | 1/4 | 28.18   | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,910.58 | 1/2 | 3,607.09 | 1/2 | 3,259.23 | 1/2 | 2,910.59 | 1/2 | 2,543.92 | 1/2 | 2,177.25 | 1/2 | 1,810.57 | 1/2 | 1,443.90 | 1/2 | 1,077.23 | 1/2 | 710.56 | 1/2 | 357.77 | 1/2 | 23.63   | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,907.34 | 3/4 | 3,599.84 | 3/4 | 3,251.98 | 3/4 | 2,902.95 | 3/4 | 2,536.28 | 3/4 | 2,169.61 | 3/4 | 1,802.94 | 3/4 | 1,436.26 | 3/4 | 1,069.59 | 3/4 | 702.92 | 3/4 | 350.50 | 3/4 | 19.09   | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 5                                                        | 3,904.09 | 5   | 3,592.59 | 5   | 3,244.74 | 5   | 2,895.31 | 5   | 2,528.64 | 5   | 2,161.97 | 5   | 1,795.30 | 5   | 1,428.62 | 5   | 1,061.95 | 5   | 695.28 | 5   | 343.22 | 5   | * 14.54 | 5   |        | 5   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,900.11 | 1/4 | 3,585.35 | 1/4 | 3,237.49 | 1/4 | 2,887.67 | 1/4 | 2,521.00 | 1/4 | 2,154.33 | 1/4 | 1,787.66 | 1/4 | 1,420.99 | 1/4 | 1,054.31 | 1/4 | 687.64 | 1/4 | 335.95 | 1/4 |         | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,896.14 | 1/2 | 3,578.10 | 1/2 | 3,230.24 | 1/2 | 2,880.03 | 1/2 | 2,513.36 | 1/2 | 2,146.69 | 1/2 | 1,780.02 | 1/2 | 1,413.35 | 1/2 | 1,046.67 | 1/2 | 680.00 | 1/2 | 328.68 | 1/2 |         | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,892.16 | 3/4 | 3,570.85 | 3/4 | 3,223.00 | 3/4 | 2,872.40 | 3/4 | 2,505.72 | 3/4 | 2,139.05 | 3/4 | 1,772.38 | 3/4 | 1,405.71 | 3/4 | 1,039.04 | 3/4 | 672.36 | 3/4 | 321.41 | 3/4 |         | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 6                                                        | 3,888.19 | 6   | 3,563.60 | 6   | 3,215.75 | 6   | 2,864.76 | 6   | 2,498.08 | 6   | 2,131.41 | 6   | 1,764.74 | 6   | 1,398.07 | 6   | 1,031.40 | 6   | 664.72 | 6   | 314.14 | 6   |         | 6   |        | 6   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,883.49 | 1/4 | 3,556.36 | 1/4 | 3,208.50 | 1/4 | 2,857.12 | 1/4 | 2,490.45 | 1/4 | 2,123.77 | 1/4 | 1,757.10 | 1/4 | 1,390.43 | 1/4 | 1,023.76 | 1/4 | 657.09 | 1/4 | 306.87 | 1/4 |         | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,878.78 | 1/2 | 3,549.11 | 1/2 | 3,201.25 | 1/2 | 2,849.48 | 1/2 | 2,482.81 | 1/2 | 2,116.13 | 1/2 | 1,749.46 | 1/2 | 1,382.79 | 1/2 | 1,016.12 | 1/2 | 649.45 | 1/2 | 299.60 | 1/2 |         | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,874.08 | 3/4 | 3,541.86 | 3/4 | 3,194.01 | 3/4 | 2,841.84 | 3/4 | 2,475.17 | 3/4 | 2,108.50 | 3/4 | 1,741.82 | 3/4 | 1,375.15 | 3/4 | 1,008.48 | 3/4 | 641.81 | 3/4 | 292.33 | 3/4 |         | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 7                                                        | 3,869.38 | 7   | 3,534.62 | 7   | 3,186.76 | 7   | 2,834.20 | 7   | 2,467.53 | 7   | 2,100.86 | 7   | 1,734.18 | 7   | 1,367.51 | 7   | 1,000.84 | 7   | 634.17 | 7   | 285.06 | 7   |         | 7   |        | 7   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,863.95 | 1/4 | 3,527.37 | 1/4 | 3,179.51 | 1/4 | 2,826.56 | 1/4 | 2,459.89 | 1/4 | 2,093.22 | 1/4 | 1,726.55 | 1/4 | 1,359.87 | 1/4 | 993.20   | 1/4 | 626.53 | 1/4 | 277.79 | 1/4 |         | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,858.52 | 1/2 | 3,520.12 | 1/2 | 3,172.27 | 1/2 | 2,818.92 | 1/2 | 2,452.25 | 1/2 | 2,085.58 | 1/2 | 1,718.91 | 1/2 | 1,352.23 | 1/2 | 985.56   | 1/2 | 618.89 | 1/2 | 270.51 | 1/2 |         | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,853.09 | 3/4 | 3,512.88 | 3/4 | 3,165.02 | 3/4 | 2,811.28 | 3/4 | 2,444.61 | 3/4 | 2,077.94 | 3/4 | 1,711.27 | 3/4 | 1,344.60 | 3/4 | 977.92   | 3/4 | 611.25 | 3/4 | 263.24 | 3/4 |         | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 8                                                        | 3,847.66 | 8   | 3,505.63 | 8   | 3,157.77 | 8   | 2,803.64 | 8   | 2,436.97 | 8   | 2,070.30 | 8   | 1,703.63 | 8   | 1,336.96 | 8   | 970.28   | 8   | 603.61 | 8   | 255.97 | 8   |         | 8   |        | 8   |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,841.51 | 1/4 | 3,498.38 | 1/4 | 3,150.53 | 1/4 | 2,796.01 | 1/4 | 2,429.33 | 1/4 | 2,062.66 | 1/4 | 1,695.99 | 1/4 | 1,329.32 | 1/4 | 962.65   | 1/4 | 595.97 | 1/4 | 248.70 | 1/4 |         | 1/4 |        | 1/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,835.35 | 1/2 | 3,491.13 | 1/2 | 3,143.28 | 1/2 | 2,788.37 | 1/2 | 2,421.69 | 1/2 | 2,055.02 | 1/2 | 1,688.35 | 1/2 | 1,321.68 | 1/2 | 955.01   | 1/2 | 588.33 | 1/2 | 241.43 | 1/2 |         | 1/2 |        | 1/2 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,829.20 | 3/4 | 3,483.89 | 3/4 | 3,136.03 | 3/4 | 2,780.73 | 3/4 | 2,414.06 | 3/4 | 2,047.38 | 3/4 | 1,680.71 | 3/4 | 1,314.04 | 3/4 | 947.37   | 3/4 | 580.70 | 3/4 | 234.16 | 3/4 |         | 3/4 |        | 3/4 |        |                 |        |  |  |  |  |  |  |  |  |  |  |
| 9                                                        |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |          |     |        |     |        |     |         |     |        |     |        |                 |        |  |  |  |  |  |  |  |  |  |  |





BARGE "MAP-704"  
MARATHON ASHLAND PETROLEUM  
OUTAGE TABLE

2 STAR

| HULL NO. 2144-1                                          |          |          |          |          |          |          |          |          |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| BARGE SHOULD BE ON EVEN-LEVEL KEEL WHEN GAUGES ARE TAKEN |          |          |          |          |          |          |          |          |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| N                                                        | 0 FT.    | 1 FT.    | 2 FT.    | 3 FT.    | 4 FT.    | 5 FT.    | 6 FT.    | 7 FT.    | 8 FT.    | 9 FT.  | 10 FT. | 11 FT. | 12 FT. | 13 FT. | 14 FT. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0                                                        | 3,939.95 | 3,752.03 | 3,404.17 | 3,056.31 | 2,696.70 | 2,330.33 | 1,963.35 | 1,596.68 | 1,230.01 | 863.34 | 498.85 | 154.18 | 0      | 0      | 0      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,939.95 | 3,744.78 | 3,396.92 | 3,049.07 | 2,689.06 | 2,322.39 | 1,955.72 | 1,589.04 | 1,222.37 | 855.70 | 492.30 | 146.91 | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,939.95 | 3,737.53 | 3,389.68 | 3,041.82 | 2,681.42 | 2,314.75 | 1,948.08 | 1,581.40 | 1,214.73 | 848.06 | 485.75 | 143.64 | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,939.61 | 3,730.29 | 3,382.43 | 3,034.57 | 2,673.78 | 2,307.11 | 1,940.44 | 1,573.77 | 1,207.09 | 840.42 | 479.20 | 139.64 | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                                                        | 3,939.27 | 3,723.04 | 3,375.18 | 3,027.33 | 2,666.14 | 2,299.47 | 1,932.80 | 1,566.13 | 1,199.45 | 832.78 | 472.66 | 132.37 | 1      | 1      | 1      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,938.94 | 3,715.79 | 3,367.94 | 3,020.08 | 2,658.50 | 2,291.83 | 1,925.16 | 1,558.49 | 1,191.82 | 825.14 | 466.11 | 125.09 | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,938.60 | 3,708.54 | 3,360.69 | 3,012.83 | 2,650.86 | 2,284.19 | 1,917.52 | 1,550.85 | 1,184.18 | 817.50 | 459.56 | 122.76 | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,937.53 | 3,701.30 | 3,353.44 | 3,005.59 | 2,643.23 | 2,276.55 | 1,909.88 | 1,543.21 | 1,176.54 | 809.87 | 452.29 | 120.43 | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2                                                        | 3,936.46 | 3,694.05 | 3,346.19 | 2,998.34 | 2,635.59 | 2,268.91 | 1,902.24 | 1,535.57 | 1,168.90 | 802.23 | 445.02 | 118.10 | 2      | 2      | 2      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,935.40 | 3,686.80 | 3,338.95 | 2,991.09 | 2,627.95 | 2,261.28 | 1,894.60 | 1,527.93 | 1,161.26 | 794.59 | 437.75 | 115.77 | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,934.33 | 3,679.56 | 3,331.70 | 2,983.84 | 2,620.31 | 2,253.64 | 1,886.96 | 1,520.29 | 1,153.62 | 786.95 | 430.48 | 113.44 | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,932.54 | 3,672.31 | 3,324.45 | 2,976.60 | 2,612.67 | 2,246.00 | 1,879.33 | 1,512.65 | 1,145.98 | 779.31 | 423.21 | 111.11 | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3                                                        | 3,930.75 | 3,665.06 | 3,317.21 | 2,969.35 | 2,605.03 | 2,238.36 | 1,871.69 | 1,505.01 | 1,138.34 | 771.67 | 415.93 | 108.78 | 3      | 3      | 3      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,928.95 | 3,657.82 | 3,309.96 | 2,962.10 | 2,597.39 | 2,230.72 | 1,864.05 | 1,497.38 | 1,130.70 | 764.03 | 408.66 | 106.45 | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,927.16 | 3,650.57 | 3,302.71 | 2,954.86 | 2,589.75 | 2,223.08 | 1,856.41 | 1,489.74 | 1,123.06 | 756.39 | 401.39 | 104.12 | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,924.64 | 3,643.32 | 3,295.47 | 2,947.61 | 2,582.11 | 2,215.44 | 1,848.77 | 1,482.10 | 1,115.43 | 748.75 | 394.12 | 101.79 | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4                                                        | 3,922.12 | 3,636.07 | 3,288.22 | 2,940.36 | 2,574.47 | 2,207.80 | 1,841.13 | 1,474.46 | 1,107.79 | 741.11 | 386.85 | 99.46  | 4      | 4      | 4      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,919.60 | 3,628.83 | 3,280.97 | 2,933.12 | 2,566.84 | 2,200.16 | 1,833.49 | 1,466.82 | 1,100.15 | 733.48 | 379.58 | 97.13  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,917.08 | 3,621.58 | 3,273.72 | 2,925.87 | 2,559.20 | 2,192.52 | 1,825.85 | 1,459.18 | 1,092.51 | 725.84 | 372.31 | 94.80  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,913.83 | 3,614.33 | 3,266.48 | 2,918.23 | 2,551.56 | 2,184.89 | 1,818.21 | 1,451.54 | 1,084.87 | 718.20 | 365.04 | 92.47  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                        | 3,910.58 | 3,607.09 | 3,259.23 | 2,910.59 | 2,543.92 | 2,177.25 | 1,810.57 | 1,443.90 | 1,077.23 | 710.56 | 357.77 | 90.14  | 5      | 5      | 5      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,907.34 | 3,599.84 | 3,251.98 | 2,902.95 | 2,536.28 | 2,169.61 | 1,802.94 | 1,436.26 | 1,069.59 | 702.92 | 350.50 | 87.81  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,904.09 | 3,592.59 | 3,244.74 | 2,895.31 | 2,528.64 | 2,161.97 | 1,795.30 | 1,428.62 | 1,061.95 | 695.28 | 343.22 | 85.48  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,900.11 | 3,585.35 | 3,237.49 | 2,887.67 | 2,521.00 | 2,154.33 | 1,787.66 | 1,420.99 | 1,054.31 | 687.64 | 335.95 | 83.15  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                        | 3,896.14 | 3,578.10 | 3,230.24 | 2,880.03 | 2,513.36 | 2,146.69 | 1,780.02 | 1,413.35 | 1,046.67 | 680.00 | 328.68 | 80.82  | 6      | 6      | 6      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,892.16 | 3,570.85 | 3,223.00 | 2,872.40 | 2,505.72 | 2,139.05 | 1,772.38 | 1,405.71 | 1,039.04 | 672.36 | 321.41 | 78.49  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,888.19 | 3,563.60 | 3,215.75 | 2,864.76 | 2,498.08 | 2,131.41 | 1,764.74 | 1,398.07 | 1,031.40 | 664.72 | 314.14 | 76.16  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,883.49 | 3,556.36 | 3,208.50 | 2,857.12 | 2,490.45 | 2,123.77 | 1,757.10 | 1,390.43 | 1,023.76 | 657.09 | 306.87 | 73.83  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                        | 3,878.78 | 3,549.11 | 3,201.25 | 2,849.48 | 2,482.81 | 2,116.13 | 1,749.46 | 1,382.79 | 1,016.12 | 649.45 | 299.60 | 71.50  | 7      | 7      | 7      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,874.08 | 3,541.86 | 3,194.01 | 2,841.84 | 2,475.17 | 2,108.50 | 1,741.82 | 1,375.15 | 1,008.48 | 641.81 | 292.33 | 69.17  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,869.38 | 3,534.62 | 3,186.76 | 2,834.20 | 2,467.53 | 2,100.86 | 1,734.18 | 1,367.51 | 1,000.84 | 634.17 | 285.06 | 66.84  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,863.95 | 3,527.37 | 3,179.51 | 2,826.56 | 2,459.89 | 2,093.22 | 1,726.55 | 1,359.87 | 993.20   | 626.53 | 277.79 | 64.51  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                        | 3,858.52 | 3,520.12 | 3,172.27 | 2,819.92 | 2,452.25 | 2,085.58 | 1,718.91 | 1,352.23 | 985.56   | 618.89 | 270.51 | 62.18  | 8      | 8      | 8      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,853.09 | 3,512.88 | 3,165.02 | 2,811.28 | 2,444.61 | 2,077.94 | 1,711.27 | 1,344.60 | 977.92   | 611.25 | 263.24 | 60.00  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,847.66 | 3,505.63 | 3,157.77 | 2,803.64 | 2,436.97 | 2,070.30 | 1,703.63 | 1,336.96 | 970.28   | 603.61 | 255.97 | 57.67  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,841.51 | 3,498.38 | 3,150.53 | 2,796.01 | 2,429.33 | 2,062.66 | 1,695.99 | 1,329.32 | 962.65   | 595.97 | 248.70 | 55.34  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                        | 3,835.35 | 3,491.13 | 3,143.28 | 2,788.37 | 2,421.69 | 2,055.02 | 1,688.35 | 1,321.68 | 955.01   | 588.33 | 241.43 | 53.01  | 9      | 9      | 9      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,829.20 | 3,483.89 | 3,136.03 | 2,780.73 | 2,414.06 | 2,047.38 | 1,680.71 | 1,314.04 | 947.37   | 580.70 | 234.16 | 50.68  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,823.04 | 3,476.64 | 3,128.78 | 2,773.09 | 2,406.42 | 2,039.74 | 1,673.07 | 1,306.40 | 939.73   | 573.06 | 226.89 | 48.35  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,816.16 | 3,469.39 | 3,121.54 | 2,765.45 | 2,398.78 | 2,032.11 | 1,665.43 | 1,298.76 | 932.09   | 565.42 | 219.62 | 46.02  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                                                       | 3,809.27 | 3,462.15 | 3,114.29 | 2,757.81 | 2,391.14 | 2,024.47 | 1,657.79 | 1,291.12 | 924.45   | 557.78 | 212.35 | 43.69  | 10     | 10     | 10     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,802.39 | 3,454.90 | 3,107.04 | 2,750.17 | 2,383.50 | 2,016.83 | 1,650.16 | 1,283.48 | 916.81   | 550.14 | 205.08 | 41.36  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,795.51 | 3,447.65 | 3,099.80 | 2,742.53 | 2,375.86 | 2,009.19 | 1,642.52 | 1,275.84 | 909.17   | 542.50 | 197.80 | 39.03  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,788.26 | 3,440.41 | 3,092.55 | 2,734.89 | 2,368.22 | 2,001.55 | 1,634.88 | 1,268.21 | 901.53   | 534.86 | 190.53 | 36.70  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                                       | 3,781.01 | 3,433.16 | 3,085.30 | 2,727.25 | 2,360.58 | 1,993.91 | 1,627.24 | 1,260.57 | 893.89   | 527.22 | 183.26 | 34.37  | 11     | 11     | 11     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/4                                                      | 3,773.77 | 3,425.91 | 3,078.06 | 2,719.62 | 2,352.94 | 1,986.27 | 1,619.60 | 1,252.93 | 886.26   | 519.58 | 175.99 | 32.04  | 1/4    | 1/4    | 1/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1/2                                                      | 3,766.52 | 3,418.66 | 3,070.81 | 2,711.98 | 2,345.30 | 1,978.63 | 1,611.96 | 1,245.29 | 878.62   | 511.94 | 168.72 | 29.71  | 1/2    | 1/2    | 1/2    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3/4                                                      | 3,759.27 | 3,411.42 | 3,063.56 | 2,704.34 | 2,337.67 | 1,970.99 | 1,604.32 | 1,237.65 | 870.98   | 505.40 | 161.45 | 27.38  | 3/4    | 3/4    | 3/4    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| APACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS            |          |          |          |          |          |          |          |          |          |        |        |        |        |        |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



## OUTAGE TABLE

### 3 PORT

HULL NO. 2144-1

[illegible]

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

★ CAPACITY BELOW STRIKE POINT.

REFERENCE GAUGE HEIGHT : 11'-5" (RIM OF HATCH OPPOSITE HINGE  
LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE IN ACCORDANCE WITH APPLICABLE API STANDARDS AND ARE TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

*Bauer*

INSPECTORATE AMERICA CORPORATION



## 3 STAR

HULL NO 2144-1

| 0 FT. |          | 1 FT. |          | 2 FT. |          | 3 FT. |          | 4 FT. |          | 5 FT. |          | 6 FT. |          | 7 FT. |          | 8 FT. |          | 9 FT. |        | 10 FT. |        | 11 FT. |        | 12 FT. |     | 13 FT. |     | 14 FT. |       |
|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|--------|--------|--------|--------|--------|--------|-----|--------|-----|--------|-------|
| N     | O        | N     | O        | N     | O        | N     | O        | N     | O        | N     | O        | N     | O        | N     | O        | N     | O        | N     | O      | N      | O      | N      | O      | N      | O   | N      | O   | N      | O     |
| 0     | 0        | 0     | 3,717.55 | 0     | 3,354.43 | 0     | 2,991.31 | 0     | 2,634.30 | 0     | 2,280.64 | 0     | 1,926.97 | 0     | 1,573.31 | 0     | 1,219.64 | 0     | 865.98 | 0      | 513.91 | 0      | 153.36 | 0      | 0   | 0      | 0   | 0      | 0     |
| 1/4   | 3,921.30 | 1/4   | 3,709.99 | 1/4   | 3,346.87 | 1/4   | 2,983.75 | 1/4   | 2,626.93 | 1/4   | 2,273.27 | 1/4   | 1,919.60 | 1/4   | 1,565.94 | 1/4   | 1,212.28 | 1/4   | 858.61 | 1/4    | 507.08 | 1/4    | 145.77 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,920.94 | 1/2   | 3,707.62 | 1/2   | 3,339.30 | 1/2   | 2,976.48 | 1/2   | 2,619.56 | 1/2   | 2,265.90 | 1/2   | 1,912.24 | 1/2   | 1,558.57 | 1/2   | 1,204.91 | 1/2   | 851.24 | 1/2    | 500.24 | 1/2    | 138.18 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,920.59 | 3/4   | 3,694.86 | 3/4   | 3,331.74 | 3/4   | 2,968.62 | 3/4   | 2,612.20 | 3/4   | 2,258.53 | 3/4   | 1,904.87 | 3/4   | 1,551.20 | 3/4   | 1,197.54 | 3/4   | 843.88 | 3/4    | 493.40 | 3/4    | 130.59 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 1     | 3,920.23 | 1     | 3,687.29 | 1     | 3,324.17 | 1     | 2,961.05 | 1     | 2,604.83 | 1     | 2,251.16 | 1     | 1,897.50 | 1     | 1,543.84 | 1     | 1,190.17 | 1     | 836.51 | 1      | 486.57 | 1      | 123.00 | 1      | 1   | 1      | 1   | 1      | 1     |
| 1/4   | 3,919.88 | 1/4   | 3,679.93 | 1/4   | 3,316.61 | 1/4   | 2,953.49 | 1/4   | 2,597.46 | 1/4   | 2,243.80 | 1/4   | 1,890.13 | 1/4   | 1,536.47 | 1/4   | 1,182.80 | 1/4   | 828.14 | 1/4    | 479.73 | 1/4    | 115.41 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,918.77 | 1/2   | 3,672.16 | 1/2   | 3,309.04 | 1/2   | 2,945.92 | 1/2   | 2,590.09 | 1/2   | 2,236.43 | 1/2   | 1,882.76 | 1/2   | 1,529.10 | 1/2   | 1,175.44 | 1/2   | 821.77 | 1/2    | 472.14 | 1/2    | 108.58 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,917.65 | 3/4   | 3,664.60 | 3/4   | 3,301.48 | 3/4   | 2,938.36 | 3/4   | 2,582.72 | 3/4   | 2,229.06 | 3/4   | 1,875.40 | 3/4   | 1,521.73 | 3/4   | 1,168.07 | 3/4   | 814.44 | 3/4    | 464.55 | 3/4    | 101.74 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 2     | 3,916.54 | 2     | 3,657.03 | 2     | 3,293.91 | 2     | 2,930.79 | 2     | 2,575.36 | 2     | 2,221.69 | 2     | 1,868.03 | 2     | 1,514.36 | 2     | 1,160.70 | 2     | 807.04 | 2      | 456.96 | 2      | 94.90  | 2      | 2   | 2      | 2   | 2      | 2     |
| 1/4   | 3,915.43 | 1/4   | 3,649.47 | 1/4   | 3,286.35 | 1/4   | 2,923.23 | 1/4   | 2,567.99 | 1/4   | 2,214.32 | 1/4   | 1,860.66 | 1/4   | 1,513.33 | 1/4   | 1,153.33 | 1/4   | 799.67 | 1/4    | 449.37 | 1/4    | 88.07  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,915.56 | 1/2   | 3,641.90 | 1/2   | 3,278.78 | 1/2   | 2,915.66 | 1/2   | 2,560.62 | 1/2   | 2,206.96 | 1/2   | 1,853.29 | 1/2   | 1,499.63 | 1/2   | 1,145.96 | 1/2   | 792.30 | 1/2    | 441.78 | 1/2    | 81.23  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,911.68 | 3/4   | 3,634.34 | 3/4   | 3,271.22 | 3/4   | 2,908.10 | 3/4   | 2,553.25 | 3/4   | 2,199.59 | 3/4   | 1,845.92 | 3/4   | 1,492.26 | 3/4   | 1,138.60 | 3/4   | 784.93 | 3/4    | 434.19 | 3/4    | 74.40  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 3     | 3,909.81 | 3     | 3,626.77 | 3     | 3,263.65 | 3     | 2,900.53 | 3     | 2,545.88 | 3     | 2,192.22 | 3     | 1,838.56 | 3     | 1,484.89 | 3     | 1,131.23 | 3     | 777.56 | 3      | 426.60 | 3      | 67.56  | 3      | 3   | 3      | 3   | 3      | 3     |
| 1/4   | 3,907.94 | 1/4   | 3,619.21 | 1/4   | 3,256.09 | 1/4   | 2,892.97 | 1/4   | 2,538.52 | 1/4   | 2,184.85 | 1/4   | 1,831.19 | 1/4   | 1,477.52 | 1/4   | 1,123.86 | 1/4   | 770.20 | 1/4    | 419.01 | 1/4    | 60.72  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,905.31 | 1/2   | 3,611.64 | 1/2   | 3,248.52 | 1/2   | 2,885.40 | 1/2   | 2,531.15 | 1/2   | 2,177.48 | 1/2   | 1,823.82 | 1/2   | 1,470.16 | 1/2   | 1,116.49 | 1/2   | 762.83 | 1/2    | 411.42 | 1/2    | 54.08  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,902.68 | 3/4   | 3,604.08 | 3/4   | 3,240.96 | 3/4   | 2,877.84 | 3/4   | 2,523.78 | 3/4   | 2,170.12 | 3/4   | 1,816.45 | 3/4   | 1,462.79 | 3/4   | 1,109.12 | 3/4   | 755.46 | 3/4    | 403.83 | 3/4    | 47.44  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 4     | 3,900.05 | 4     | 3,596.51 | 4     | 3,233.39 | 4     | 2,870.27 | 4     | 2,516.41 | 4     | 2,162.75 | 4     | 1,809.08 | 4     | 1,455.42 | 4     | 1,101.76 | 4     | 748.09 | 4      | 396.24 | 4      | 40.80  | 4      | 4   | 4      | 4   | 4      | 4     |
| 1/4   | 3,897.42 | 1/4   | 3,588.95 | 1/4   | 3,225.83 | 1/4   | 2,862.71 | 1/4   | 2,509.04 | 1/4   | 2,155.38 | 1/4   | 1,801.72 | 1/4   | 1,448.05 | 1/4   | 1,094.39 | 1/4   | 740.72 | 1/4    | 388.65 | 1/4    | 34.16  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,894.03 | 1/2   | 3,581.38 | 1/2   | 3,218.26 | 1/2   | 2,855.34 | 1/2   | 2,501.68 | 1/2   | 2,148.01 | 1/2   | 1,794.35 | 1/2   | 1,440.68 | 1/2   | 1,087.02 | 1/2   | 733.36 | 1/2    | 381.06 | 1/2    | 29.42  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,890.63 | 3/4   | 3,573.82 | 3/4   | 3,210.70 | 3/4   | 2,847.97 | 3/4   | 2,494.31 | 3/4   | 2,140.64 | 3/4   | 1,786.98 | 3/4   | 1,433.32 | 3/4   | 1,079.65 | 3/4   | 725.99 | 3/4    | 373.47 | 3/4    | 24.67  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 5     | 3,887.24 | 5     | 3,566.25 | 5     | 3,203.13 | 5     | 2,840.60 | 5     | 2,486.94 | 5     | 2,133.28 | 5     | 1,779.61 | 5     | 1,425.95 | 5     | 1,072.28 | 5     | 718.62 | 5      | 365.88 | 5      | 19.93  | 5      | 5   | 5      | 5   | 5      | 5     |
| 1/4   | 3,883.85 | 1/4   | 3,558.69 | 1/4   | 3,195.57 | 1/4   | 2,833.24 | 1/4   | 2,479.57 | 1/4   | 2,125.91 | 1/4   | 1,772.24 | 1/4   | 1,418.58 | 1/4   | 1,064.92 | 1/4   | 711.25 | 1/4    | 358.29 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,879.70 | 1/2   | 3,551.12 | 1/2   | 3,188.00 | 1/2   | 2,825.87 | 1/2   | 2,472.20 | 1/2   | 2,118.54 | 1/2   | 1,764.88 | 1/2   | 1,411.21 | 1/2   | 1,057.55 | 1/2   | 703.88 | 1/2    | 350.70 | 1/2    | 15.18  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,875.55 | 3/4   | 3,543.56 | 3/4   | 3,180.44 | 3/4   | 2,818.50 | 3/4   | 2,464.84 | 3/4   | 2,111.17 | 3/4   | 1,757.51 | 3/4   | 1,403.84 | 3/4   | 1,050.18 | 3/4   | 696.52 | 3/4    | 343.11 | 3/4    | 15.18  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 6     | 3,871.40 | 6     | 3,535.99 | 6     | 3,172.87 | 6     | 2,811.13 | 6     | 2,457.47 | 6     | 2,103.80 | 6     | 1,750.14 | 6     | 1,396.48 | 6     | 1,042.81 | 6     | 689.51 | 6      | 335.52 | 6      | 15.18  | 6      | 6   | 6      | 6   | 6      | 6     |
| 1/4   | 3,867.25 | 1/4   | 3,528.43 | 1/4   | 3,165.31 | 1/4   | 2,803.76 | 1/4   | 2,450.10 | 1/4   | 2,096.44 | 1/4   | 1,742.77 | 1/4   | 1,389.11 | 1/4   | 1,035.44 | 1/4   | 681.78 | 1/4    | 327.93 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,862.34 | 1/2   | 3,520.86 | 1/2   | 3,157.74 | 1/2   | 2,796.40 | 1/2   | 2,442.73 | 1/2   | 2,089.07 | 1/2   | 1,735.04 | 1/2   | 1,381.74 | 1/2   | 1,028.08 | 1/2   | 674.41 | 1/2    | 320.34 | 1/2    | 15.18  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,857.44 | 3/4   | 3,513.30 | 3/4   | 3,150.18 | 3/4   | 2,789.03 | 3/4   | 2,435.36 | 3/4   | 2,081.70 | 3/4   | 1,728.04 | 3/4   | 1,374.37 | 3/4   | 1,020.71 | 3/4   | 667.04 | 3/4    | 312.75 | 3/4    | 15.18  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 7     | 3,852.53 | 7     | 3,505.73 | 7     | 3,142.61 | 7     | 2,781.66 | 7     | 2,428.00 | 7     | 2,074.33 | 7     | 1,720.67 | 7     | 1,367.00 | 7     | 1,013.34 | 7     | 659.68 | 7      | 305.16 | 7      | 15.18  | 7      | 7   | 7      | 7   | 7      | 7     |
| 1/4   | 3,847.62 | 1/4   | 3,498.17 | 1/4   | 3,135.05 | 1/4   | 2,774.29 | 1/4   | 2,420.63 | 1/4   | 2,066.96 | 1/4   | 1,713.30 | 1/4   | 1,359.64 | 1/4   | 1,005.97 | 1/4   | 652.31 | 1/4    | 297.57 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,841.95 | 1/2   | 3,490.60 | 1/2   | 3,127.48 | 1/2   | 2,766.92 | 1/2   | 2,413.26 | 1/2   | 2,059.60 | 1/2   | 1,705.93 | 1/2   | 1,352.27 | 1/2   | 998.60   | 1/2   | 644.94 | 1/2    | 289.98 | 1/2    | 15.18  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,836.29 | 3/4   | 3,483.04 | 3/4   | 3,119.92 | 3/4   | 2,759.56 | 3/4   | 2,405.89 | 3/4   | 2,052.23 | 3/4   | 1,698.56 | 3/4   | 1,347.90 | 3/4   | 991.24   | 3/4   | 637.57 | 3/4    | 282.39 | 3/4    | 15.18  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 8     | 3,830.62 | 8     | 3,475.47 | 8     | 3,112.35 | 8     | 2,752.19 | 8     | 2,398.52 | 8     | 2,044.86 | 8     | 1,691.20 | 8     | 1,337.53 | 8     | 983.87   | 8     | 630.20 | 8      | 274.80 | 8      | 15.18  | 8      | 8   | 8      | 8   | 8      | 8     |
| 1/4   | 3,824.95 | 1/4   | 3,467.91 | 1/4   | 3,104.79 | 1/4   | 2,744.82 | 1/4   | 2,391.16 | 1/4   | 2,037.49 | 1/4   | 1,683.83 | 1/4   | 1,330.16 | 1/4   | 976.50   | 1/4   | 622.84 | 1/4    | 267.21 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,818.53 | 1/2   | 3,460.34 | 1/2   | 3,097.22 | 1/2   | 2,737.45 | 1/2   | 2,383.79 | 1/2   | 2,030.12 | 1/2   | 1,676.46 | 1/2   | 1,322.80 | 1/2   | 969.13   | 1/2   | 615.47 | 1/2    | 259.62 | 1/2    | 15.18  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,812.10 | 3/4   | 3,452.78 | 3/4   | 3,089.66 | 3/4   | 2,730.08 | 3/4   | 2,376.42 | 3/4   | 2,022.76 | 3/4   | 1,669.09 | 3/4   | 1,315.43 | 3/4   | 961.76   | 3/4   | 608.10 | 3/4    | 252.03 | 3/4    | 15.18  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 9     | 3,805.67 | 9     | 3,445.21 | 9     | 3,082.09 | 9     | 2,722.72 | 9     | 2,369.05 | 9     | 2,015.39 | 9     | 1,661.72 | 9     | 1,308.06 | 9     | 954.40   | 9     | 600.73 | 9      | 244.44 | 9      | 15.18  | 9      | 9   | 9      | 9   | 9      | 9     |
| 1/4   | 3,799.25 | 1/4   | 3,437.65 | 1/4   | 3,074.53 | 1/4   | 2,715.35 | 1/4   | 2,361.68 | 1/4   | 2,008.02 | 1/4   | 1,654.36 | 1/4   | 1,300.69 | 1/4   | 947.03   | 1/4   | 593.36 | 1/4    | 236.85 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4   |
| 1/2   | 3,792.06 | 1/2   | 3,430.08 | 1/2   | 3,066.96 | 1/2   | 2,707.98 | 1/2   | 2,354.32 | 1/2   | 2,000.65 | 1/2   | 1,646.99 | 1/2   | 1,293.32 | 1/2   | 939.66   | 1/2   | 586.00 | 1/2    | 229.26 | 1/2    | 15.18  | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    | 1/2   |
| 3/4   | 3,784.88 | 3/4   | 3,422.52 | 3/4   | 3,059.40 | 3/4   | 2,700.61 | 3/4   | 2,346.95 | 3/4   | 1,993.28 | 3/4   | 1,639.62 | 3/4   | 1,285.96 | 3/4   | 932.29   | 3/4   | 578.63 | 3/4    | 221.67 | 3/4    | 15.18  | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    | 3/4   |
| 10    | 3,777.69 | 10    | 3,414.95 | 10    | 3,051.83 | 10    | 2,693.24 | 10    | 2,339.58 | 10    | 1,985.92 | 10    | 1,632.25 | 10    | 1,278.59 | 10    | 924.92   | 10    | 571.26 | 10     | 214.08 | 10     | 15.18  | 10     | 10  | 10     | 10  | 10     | 10    |
| 1/4   | 3,770.51 | 1/4   | 3,404.27 | 1/4   | 3,044.27 | 1/4   | 2,685.88 | 1/4   | 2,332.21 | 1/4   | 1,978.55 | 1/4   | 1,624.88 | 1/4   | 1,271.22 | 1/4   | 917.56   | 1/4   | 563.89 | 1/4    | 206.49 | 1/4    | 15.18  | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    | 1/4</ |

REFERENCE GAUGE HEIGHT : 11'-5 1/4" (RIM OF HATCH OPPOSITE HINGE  
LOCATED NEAR CENTER OF TANK)

WE CERTIFY ALL MEASUREMENTS AND COMPUTATIONS ARE  
IN ACCORDANCE WITH APPLICABLE API STANDARDS AND  
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*D. Sauer*  
INSPECTORATE AMERICA CORPORATION