



# BARGE "KIRBY 29065"

## ULLAGE TRIM TABLE HERMETIC

|        | 1 FT.      |              | 2 FT.      |              | 3 FT.      |              | 4 FT.      |              | 5 FT.      |              | 6 FT.      |              |
|--------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|------------|--------------|
|        | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> | <u>BOW</u> | <u>STERN</u> |
| 1 PORT | - 00-1/8   | 00-1/8       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-3/4   | 00-3/4       | - 00-7/8   | 00-7/8       | - 01-0/8   | 01-0/8       |
| 1 STBD | - 00-1/8   | 00-1/8       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-3/4   | 00-3/4       | - 00-7/8   | 00-7/8       | - 01-0/8   | 01-0/8       |
| 2 PORT | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       | - 00-3/4   | 00-3/4       |
| 2 STBD | - 00-1/8   | 00-1/8       | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-1/2   | 00-1/2       | - 00-5/8   | 00-5/8       | - 00-3/4   | 00-3/4       |
| 3 PORT | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-5/8   | 00-5/8       | - 00-3/4   | 00-3/4       | - 01-0/8   | 01-0/8       | - 01-1/4   | 01-1/4       |
| 3 STBD | - 00-1/4   | 00-1/4       | - 00-3/8   | 00-3/8       | - 00-5/8   | 00-5/8       | - 00-3/4   | 00-3/4       | - 01-0/8   | 01-0/8       | - 01-1/4   | 01-1/4       |

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"  
 AFT DRAFT = 4'-00"  
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS 00-3/8"  
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 4'-00 3/8"

LENGTH BETWEEN DRAFT MARKS: 235'-09"

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# BARGE "KIRBY 29065"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |       | 0   | 4,384.99 | 0   | 4,086.59 | 0   | 3,767.91 | 0   | 3,429.64 | 0   | 3,088.18 | 0   | 2,746.72 | 0   | 2,405.25 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,378.73 | 1/4 | 4,080.15 | 1/4 | 3,761.03 | 1/4 | 3,422.53 | 1/4 | 3,081.07 | 1/4 | 2,739.60 | 1/4 | 2,398.14 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,372.46 | 1/2 | 4,073.71 | 1/2 | 3,754.15 | 1/2 | 3,415.41 | 1/2 | 3,073.95 | 1/2 | 2,732.49 | 1/2 | 2,391.03 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,366.19 | 3/4 | 4,067.28 | 3/4 | 3,747.27 | 3/4 | 3,408.30 | 3/4 | 3,066.84 | 3/4 | 2,725.38 | 3/4 | 2,383.91 |
| 1   |       | 1   |       | 1   |       | 1   | 4,359.93 | 1   | 4,060.84 | 1   | 3,740.39 | 1   | 3,401.19 | 1   | 3,059.72 | 1   | 2,718.26 | 1   | 2,376.80 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,353.90 | 1/4 | 4,054.37 | 1/4 | 3,733.48 | 1/4 | 3,394.07 | 1/4 | 3,052.61 | 1/4 | 2,711.15 | 1/4 | 2,369.69 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,347.88 | 1/2 | 4,047.90 | 1/2 | 3,726.56 | 1/2 | 3,386.96 | 1/2 | 3,045.50 | 1/2 | 2,704.03 | 1/2 | 2,362.57 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,341.86 | 3/4 | 4,041.42 | 3/4 | 3,719.64 | 3/4 | 3,379.85 | 3/4 | 3,038.38 | 3/4 | 2,696.92 | 3/4 | 2,355.46 |
| 2   |       | 2   |       | 2   |       | 2   | 4,335.84 | 2   | 4,034.95 | 2   | 3,712.73 | 2   | 3,372.73 | 2   | 3,031.27 | 2   | 2,689.81 | 2   | 2,348.34 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,329.78 | 1/4 | 4,028.44 | 1/4 | 3,705.77 | 1/4 | 3,365.62 | 1/4 | 3,024.16 | 1/4 | 2,682.69 | 1/4 | 2,341.23 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,323.72 | 1/2 | 4,021.93 | 1/2 | 3,698.82 | 1/2 | 3,358.50 | 1/2 | 3,017.04 | 1/2 | 2,675.58 | 1/2 | 2,334.12 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,317.66 | 3/4 | 4,015.42 | 3/4 | 3,691.87 | 3/4 | 3,351.39 | 3/4 | 3,009.93 | 3/4 | 2,668.47 | 3/4 | 2,327.00 |
| 3   |       | 3   |       | 3   |       | 3   | 4,311.60 | 3   | 4,008.91 | 3   | 3,684.91 | 3   | 3,344.28 | 3   | 3,002.81 | 3   | 2,661.35 | 3   | 2,319.89 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,305.50 | 1/4 | 4,002.37 | 1/4 | 3,677.91 | 1/4 | 3,337.16 | 1/4 | 2,995.70 | 1/4 | 2,654.24 | 1/4 | 2,312.78 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,299.40 | 1/2 | 3,995.82 | 1/2 | 3,670.90 | 1/2 | 3,330.05 | 1/2 | 2,988.59 | 1/2 | 2,647.12 | 1/2 | 2,305.66 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,293.30 | 3/4 | 3,989.27 | 3/4 | 3,663.89 | 3/4 | 3,322.94 | 3/4 | 2,981.47 | 3/4 | 2,640.01 | 3/4 | 2,298.55 |
| 4   |       | 4   |       | 4   |       | 4   | 4,287.20 | 4   | 3,982.73 | 4   | 3,656.89 | 4   | 3,315.82 | 4   | 2,974.36 | 4   | 2,632.90 | 4   | 2,291.43 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,281.06 | 1/4 | 3,976.14 | 1/4 | 3,649.84 | 1/4 | 3,308.71 | 1/4 | 2,967.25 | 1/4 | 2,625.78 | 1/4 | 2,284.32 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,274.92 | 1/2 | 3,969.56 | 1/2 | 3,642.79 | 1/2 | 3,301.59 | 1/2 | 2,960.13 | 1/2 | 2,618.67 | 1/2 | 2,277.21 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,268.78 | 3/4 | 3,962.98 | 3/4 | 3,635.74 | 3/4 | 3,294.48 | 3/4 | 2,953.02 | 3/4 | 2,611.56 | 3/4 | 2,270.09 |
| 5   |       | 5   |       | 5   |       | 5   | 4,262.64 | 5   | 3,956.39 | 5   | 3,628.69 | 5   | 3,287.37 | 5   | 2,945.90 | 5   | 2,604.44 | 5   | 2,262.98 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,256.46 | 1/4 | 3,949.77 | 1/4 | 3,621.60 | 1/4 | 3,280.25 | 1/4 | 2,938.79 | 1/4 | 2,597.33 | 1/4 | 2,255.87 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,250.29 | 1/2 | 3,943.15 | 1/2 | 3,614.52 | 1/2 | 3,273.14 | 1/2 | 2,931.68 | 1/2 | 2,590.21 | 1/2 | 2,248.75 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,244.11 | 3/4 | 3,936.53 | 3/4 | 3,607.43 | 3/4 | 3,266.02 | 3/4 | 2,924.56 | 3/4 | 2,583.10 | 3/4 | 2,241.64 |
| 6   |       | 6   |       | 6   |       | 6   | 4,237.93 | 6   | 3,929.91 | 6   | 3,600.35 | 6   | 3,258.91 | 6   | 2,917.45 | 6   | 2,575.99 | 6   | 2,234.52 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,231.72 | 1/4 | 3,923.25 | 1/4 | 3,593.24 | 1/4 | 3,251.80 | 1/4 | 2,910.33 | 1/4 | 2,568.87 | 1/4 | 2,227.41 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,225.51 | 1/2 | 3,916.60 | 1/2 | 3,586.13 | 1/2 | 3,244.68 | 1/2 | 2,903.22 | 1/2 | 2,561.76 | 1/2 | 2,220.30 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,524.19 | 3/4 | 4,219.29 | 3/4 | 3,909.94 | 3/4 | 3,579.03 | 3/4 | 2,896.11 | 3/4 | 2,554.64 | 3/4 | 2,213.18 |
| 7   |       | 7   |       | 7   |       | 7   | 4,519.95 | 7   | 4,213.08 | 7   | 3,903.28 | 7   | 3,571.92 | 7   | 2,888.99 | 7   | 2,547.53 | 7   | 2,206.07 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,514.29 | 1/4 | 4,206.83 | 1/4 | 3,896.59 | 1/4 | 3,564.80 | 1/4 | 2,881.88 | 1/4 | 2,540.42 | 1/4 | 2,198.95 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,508.62 | 1/2 | 4,200.58 | 1/2 | 3,889.89 | 1/2 | 3,557.69 | 1/2 | 2,874.77 | 1/2 | 2,533.30 | 1/2 | 2,191.84 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,502.96 | 3/4 | 4,194.33 | 3/4 | 3,883.20 | 3/4 | 3,550.58 | 3/4 | 2,867.65 | 3/4 | 2,526.19 | 3/4 | 2,184.73 |
| 8   |       | 8   |       | 8   |       | 8   | 4,497.29 | 8   | 4,188.08 | 8   | 3,876.50 | 8   | 3,543.46 | 8   | 2,860.54 | 8   | 2,519.08 | 8   | 2,177.61 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,490.47 | 1/4 | 4,181.79 | 1/4 | 3,869.77 | 1/4 | 3,536.35 | 1/4 | 2,853.42 | 1/4 | 2,511.96 | 1/4 | 2,170.50 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,483.66 | 1/2 | 4,175.50 | 1/2 | 3,863.04 | 1/2 | 3,529.24 | 1/2 | 2,846.31 | 1/2 | 2,504.85 | 1/2 | 2,163.39 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,476.84 | 3/4 | 4,169.21 | 3/4 | 3,856.31 | 3/4 | 3,522.12 | 3/4 | 2,839.20 | 3/4 | 2,497.73 | 3/4 | 2,156.27 |
| 9   |       | 9   |       | 9   |       | 9   | 4,470.02 | 9   | 4,162.92 | 9   | 3,849.58 | 9   | 3,515.01 | 9   | 2,832.08 | 9   | 2,490.62 | 9   | 2,149.16 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,462.93 | 1/4 | 4,156.60 | 1/4 | 3,842.81 | 1/4 | 3,507.89 | 1/4 | 2,824.97 | 1/4 | 2,483.51 | 1/4 | 2,142.04 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,455.85 | 1/2 | 4,150.28 | 1/2 | 3,836.04 | 1/2 | 3,500.78 | 1/2 | 2,817.86 | 1/2 | 2,476.39 | 1/2 | 2,134.93 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,448.76 | 3/4 | 4,143.95 | 3/4 | 3,829.27 | 3/4 | 3,493.67 | 3/4 | 2,810.74 | 3/4 | 2,469.28 | 3/4 | 2,127.82 |
| 10  |       | 10  |       | 10  |       | 10  | 4,441.68 | 10  | 4,137.63 | 10  | 3,822.50 | 10  | 3,486.55 | 10  | 2,803.63 | 10  | 2,462.17 | 10  | 2,120.70 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,434.59 | 1/4 | 4,131.26 | 1/4 | 3,815.70 | 1/4 | 3,479.44 | 1/4 | 2,796.51 | 1/4 | 2,455.05 | 1/4 | 2,113.59 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,427.51 | 1/2 | 4,124.90 | 1/2 | 3,808.89 | 1/2 | 3,472.32 | 1/2 | 2,789.40 | 1/2 | 2,447.94 | 1/2 | 2,106.48 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,420.42 | 3/4 | 4,118.54 | 3/4 | 3,802.09 | 3/4 | 3,465.21 | 3/4 | 2,782.29 | 3/4 | 2,440.82 | 3/4 | 2,099.36 |
| 11  |       | 11  |       | 11  |       | 11  | 4,413.34 | 11  | 4,112.18 | 11  | 3,795.28 | 11  | 3,458.10 | 11  | 2,775.17 | 11  | 2,433.71 | 11  | 2,092.25 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,406.25 | 1/4 | 4,105.78 | 1/4 | 3,788.44 | 1/4 | 3,450.98 | 1/4 | 2,768.06 | 1/4 | 2,426.60 | 1/4 | 2,085.13 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,399.16 | 1/2 | 4,099.38 | 1/2 | 3,781.60 | 1/2 | 3,443.87 | 1/2 | 2,760.94 | 1/2 | 2,419.48 | 1/2 | 2,078.02 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,392.08 | 3/4 | 4,092.98 | 3/4 | 3,774.75 | 3/4 | 3,436.76 | 3/4 | 2,753.83 | 3/4 | 2,412.37 | 3/4 | 2,070.91 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
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# BARGE "KIRBY 29065"

## 1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,063.79 | 0   | 1,722.33 | 0   | 1,380.87 | 0   | 1,039.48 | 0   | 700.60 | 0   | 384.03 | 0   | 99.69  | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,056.68 | 1/4 | 1,715.22 | 1/4 | 1,373.75 | 1/4 | 1,032.40 | 1/4 | 693.70 | 1/4 | 377.80 | 1/4 | 94.13  | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 2,049.56 | 1/2 | 1,708.10 | 1/2 | 1,366.64 | 1/2 | 1,025.31 | 1/2 | 686.79 | 1/2 | 371.57 | 1/2 | 88.57  | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 2,042.45 | 3/4 | 1,700.99 | 3/4 | 1,359.53 | 3/4 | 1,018.22 | 3/4 | 679.89 | 3/4 | 365.34 | 3/4 | 83.01  | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 1   | 2,035.34 | 1   | 1,693.87 | 1   | 1,352.41 | 1   | 1,011.13 | 1   | 672.98 | 1   | 359.11 | 1   | 77.45  | 1   | 1      | 1   |        | 1   | 1      |
| 1/4 | 2,028.22 | 1/4 | 1,686.76 | 1/4 | 1,345.30 | 1/4 | 1,004.05 | 1/4 | 666.14 | 1/4 | 352.94 | 1/4 | 71.94  | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 2,021.11 | 1/2 | 1,679.65 | 1/2 | 1,338.18 | 1/2 | 996.97   | 1/2 | 659.29 | 1/2 | 346.77 | 1/2 | 66.43  | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 2,014.00 | 3/4 | 1,672.53 | 3/4 | 1,331.07 | 3/4 | 989.88   | 3/4 | 652.44 | 3/4 | 340.59 | 3/4 | 60.93  | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 2   | 2,006.88 | 2   | 1,665.42 | 2   | 1,323.96 | 2   | 982.80   | 2   | 645.59 | 2   | 334.42 | 2   | 55.42  | 2   | 2      | 2   |        | 2   | 2      |
| 1/4 | 1,999.77 | 1/4 | 1,658.31 | 1/4 | 1,316.84 | 1/4 | 975.72   | 1/4 | 638.80 | 1/4 | 328.30 | 1/4 | 49.97  | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,992.65 | 1/2 | 1,651.19 | 1/2 | 1,309.73 | 1/2 | 968.63   | 1/2 | 632.01 | 1/2 | 322.18 | 1/2 | 44.53  | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,985.54 | 3/4 | 1,644.08 | 3/4 | 1,302.62 | 3/4 | 961.55   | 3/4 | 625.22 | 3/4 | 316.07 | 3/4 | 39.08  | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 3   | 1,978.43 | 3   | 1,636.96 | 3   | 1,295.50 | 3   | 954.47   | 3   | 618.42 | 3   | 309.95 | 3   | 33.63  | 3   | 3      | 3   |        | 3   | 3      |
| 1/4 | 1,971.31 | 1/4 | 1,629.85 | 1/4 | 1,288.39 | 1/4 | 947.39   | 1/4 | 611.69 | 1/4 | 303.89 | 1/4 | 28.90  | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,964.20 | 1/2 | 1,622.74 | 1/2 | 1,281.27 | 1/2 | 940.31   | 1/2 | 604.95 | 1/2 | 297.83 | 1/2 | 24.17  | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,957.09 | 3/4 | 1,615.62 | 3/4 | 1,274.16 | 3/4 | 933.22   | 3/4 | 598.21 | 3/4 | 291.77 | 3/4 | 19.45  | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 4   | 1,949.97 | 4   | 1,608.51 | 4   | 1,267.05 | 4   | 926.14   | 4   | 591.48 | 4   | 285.70 | 4   | 14.72  | 4   | 4      | 4   |        | 4   | 4      |
| 1/4 | 1,942.86 | 1/4 | 1,601.40 | 1/4 | 1,259.93 | 1/4 | 919.06   | 1/4 | 584.80 | 1/4 | 279.70 | 1/4 | 11.61  | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,935.74 | 1/2 | 1,594.28 | 1/2 | 1,252.82 | 1/2 | 911.98   | 1/2 | 578.12 | 1/2 | 273.69 | 1/2 | 8.49   | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,928.63 | 3/4 | 1,587.17 | 3/4 | 1,245.71 | 3/4 | 904.90   | 3/4 | 571.44 | 3/4 | 267.68 | 3/4 | 5.38   | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 5   | 1,921.52 | 5   | 1,580.05 | 5   | 1,238.59 | 5   | 897.81   | 5   | 564.76 | 5   | 261.67 | 5   | 2.26   | 5   |        | 5   |        | 5   | 5      |
| 1/4 | 1,914.40 | 1/4 | 1,572.94 | 1/4 | 1,231.48 | 1/4 | 890.73   | 1/4 | 558.13 | 1/4 | 255.72 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,907.29 | 1/2 | 1,565.83 | 1/2 | 1,224.36 | 1/2 | 883.65   | 1/2 | 551.51 | 1/2 | 249.77 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,900.18 | 3/4 | 1,558.71 | 3/4 | 1,217.25 | 3/4 | 876.57   | 3/4 | 544.89 | 3/4 | 243.81 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 6   | 1,893.06 | 6   | 1,551.60 | 6   | 1,210.14 | 6   | 869.49   | 6   | 538.26 | 6   | 237.86 | 6   |        | 6   |        | 6   |        | 6   | 6      |
| 1/4 | 1,885.95 | 1/4 | 1,544.49 | 1/4 | 1,203.02 | 1/4 | 862.41   | 1/4 | 531.69 | 1/4 | 231.96 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,878.83 | 1/2 | 1,537.37 | 1/2 | 1,195.91 | 1/2 | 855.32   | 1/2 | 525.12 | 1/2 | 226.07 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,871.72 | 3/4 | 1,530.26 | 3/4 | 1,188.80 | 3/4 | 848.24   | 3/4 | 518.56 | 3/4 | 220.17 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 7   | 1,864.61 | 7   | 1,523.14 | 7   | 1,181.68 | 7   | 841.16   | 7   | 511.99 | 7   | 214.27 | 7   |        | 7   |        | 7   |        | 7   | 7      |
| 1/4 | 1,857.49 | 1/4 | 1,516.03 | 1/4 | 1,174.57 | 1/4 | 834.08   | 1/4 | 505.48 | 1/4 | 208.43 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,850.38 | 1/2 | 1,508.92 | 1/2 | 1,167.45 | 1/2 | 827.00   | 1/2 | 498.96 | 1/2 | 202.59 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,843.26 | 3/4 | 1,501.80 | 3/4 | 1,160.34 | 3/4 | 819.91   | 3/4 | 492.45 | 3/4 | 196.75 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 8   | 1,836.15 | 8   | 1,494.69 | 8   | 1,153.23 | 8   | 812.83   | 8   | 485.94 | 8   | 190.91 | 8   |        | 8   |        | 8   |        | 8   | 8      |
| 1/4 | 1,829.04 | 1/4 | 1,487.57 | 1/4 | 1,146.11 | 1/4 | 805.75   | 1/4 | 479.48 | 1/4 | 185.12 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,821.92 | 1/2 | 1,480.46 | 1/2 | 1,139.00 | 1/2 | 798.67   | 1/2 | 473.03 | 1/2 | 179.34 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,814.81 | 3/4 | 1,473.35 | 3/4 | 1,131.88 | 3/4 | 791.59   | 3/4 | 466.58 | 3/4 | 173.55 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 9   | 1,807.70 | 9   | 1,466.23 | 9   | 1,124.77 | 9   | 784.50   | 9   | 460.12 | 9   | 167.77 | 9   |        | 9   |        | 9   |        | 9   | 9      |
| 1/4 | 1,800.58 | 1/4 | 1,459.12 | 1/4 | 1,117.66 | 1/4 | 777.46   | 1/4 | 453.73 | 1/4 | 162.04 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,793.47 | 1/2 | 1,452.01 | 1/2 | 1,110.54 | 1/2 | 770.42   | 1/2 | 447.33 | 1/2 | 156.31 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,786.35 | 3/4 | 1,444.89 | 3/4 | 1,103.43 | 3/4 | 763.38   | 3/4 | 440.93 | 3/4 | 150.58 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 10  | 1,779.24 | 10  | 1,437.78 | 10  | 1,096.32 | 10  | 756.34   | 10  | 434.53 | 10  | 144.85 | 10  |        | 10  |        | 10  |        | 10  | 10     |
| 1/4 | 1,772.13 | 1/4 | 1,430.66 | 1/4 | 1,089.20 | 1/4 | 749.36   | 1/4 | 428.19 | 1/4 | 139.18 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,765.01 | 1/2 | 1,423.55 | 1/2 | 1,082.09 | 1/2 | 742.38   | 1/2 | 421.85 | 1/2 | 133.51 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,757.90 | 3/4 | 1,416.44 | 3/4 | 1,074.97 | 3/4 | 735.39   | 3/4 | 415.51 | 3/4 | 127.83 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |
| 11  | 1,750.79 | 11  | 1,409.32 | 11  | 1,067.86 | 11  | 728.41   | 11  | 409.17 | 11  | 122.16 | 11  |        | 11  |        | 11  |        | 11  | 11     |
| 1/4 | 1,743.67 | 1/4 | 1,402.21 | 1/4 | 1,060.77 | 1/4 | 721.46   | 1/4 | 402.88 | 1/4 | 116.54 | 1/4 |        | 1/4 | 1/4    | 1/4 |        | 1/4 | 1/4    |
| 1/2 | 1,736.56 | 1/2 | 1,395.10 | 1/2 | 1,053.67 | 1/2 | 714.50   | 1/2 | 396.60 | 1/2 | 110.93 | 1/2 |        | 1/2 | 1/2    | 1/2 |        | 1/2 | 1/2    |
| 3/4 | 1,729.44 | 3/4 | 1,387.98 | 3/4 | 1,046.58 | 3/4 | 707.55   | 3/4 | 390.31 | 3/4 | 105.31 | 3/4 |        | 3/4 | 3/4    | 3/4 |        | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2017 SW  
CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |       | 0   | 4,380.96 | 0   | 4,082.46 | 0   | 3,763.32 | 0   | 3,424.71 | 0   | 3,083.11 | 0   | 2,741.52 | 0   | 2,399.93 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,374.69 | 1/4 | 4,076.03 | 1/4 | 3,756.44 | 1/4 | 3,417.59 | 1/4 | 3,076.00 | 1/4 | 2,734.41 | 1/4 | 2,392.81 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,368.43 | 1/2 | 4,069.59 | 1/2 | 3,749.56 | 1/2 | 3,410.47 | 1/2 | 3,068.88 | 1/2 | 2,727.29 | 1/2 | 2,385.70 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,362.16 | 3/4 | 4,063.16 | 3/4 | 3,742.68 | 3/4 | 3,403.36 | 3/4 | 3,061.76 | 3/4 | 2,720.17 | 3/4 | 2,378.58 |
| 1   |       | 1   |       | 1   |       | 1   | 4,356.14 | 1   | 4,056.68 | 1   | 3,735.76 | 1   | 3,396.24 | 1   | 3,054.65 | 1   | 2,713.06 | 1   | 2,371.46 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,350.12 | 1/4 | 4,050.21 | 1/4 | 3,728.84 | 1/4 | 3,389.12 | 1/4 | 3,047.53 | 1/4 | 2,705.94 | 1/4 | 2,364.35 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,344.10 | 1/2 | 4,043.74 | 1/2 | 3,721.93 | 1/2 | 3,382.01 | 1/2 | 3,040.41 | 1/2 | 2,698.82 | 1/2 | 2,357.23 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,338.09 | 3/4 | 4,037.27 | 3/4 | 3,715.01 | 3/4 | 3,374.89 | 3/4 | 3,033.30 | 3/4 | 2,691.71 | 3/4 | 2,350.11 |
| 2   |       | 2   |       | 2   |       | 2   | 4,332.03 | 2   | 4,030.76 | 2   | 3,708.05 | 2   | 3,367.77 | 2   | 3,026.18 | 2   | 2,684.59 | 2   | 2,343.00 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,325.97 | 1/4 | 4,024.25 | 1/4 | 3,701.10 | 1/4 | 3,360.66 | 1/4 | 3,019.07 | 1/4 | 2,677.47 | 1/4 | 2,335.88 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,319.92 | 1/2 | 4,017.74 | 1/2 | 3,694.14 | 1/2 | 3,353.54 | 1/2 | 3,011.95 | 1/2 | 2,670.36 | 1/2 | 2,328.76 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,313.86 | 3/4 | 4,011.23 | 3/4 | 3,687.19 | 3/4 | 3,346.42 | 3/4 | 3,004.83 | 3/4 | 2,663.24 | 3/4 | 2,321.65 |
| 3   |       | 3   |       | 3   |       | 3   | 4,307.76 | 3   | 4,004.68 | 3   | 3,680.18 | 3   | 3,339.31 | 3   | 2,997.72 | 3   | 2,656.12 | 3   | 2,314.53 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,301.66 | 1/4 | 3,998.14 | 1/4 | 3,673.17 | 1/4 | 3,332.19 | 1/4 | 2,990.60 | 1/4 | 2,649.01 | 1/4 | 2,307.42 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,295.56 | 1/2 | 3,991.59 | 1/2 | 3,666.16 | 1/2 | 3,325.08 | 1/2 | 2,983.48 | 1/2 | 2,641.89 | 1/2 | 2,300.30 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,289.46 | 3/4 | 3,985.04 | 3/4 | 3,659.15 | 3/4 | 3,317.96 | 3/4 | 2,976.37 | 3/4 | 2,634.77 | 3/4 | 2,293.18 |
| 4   |       | 4   |       | 4   |       | 4   | 4,283.33 | 4   | 3,978.46 | 4   | 3,652.10 | 4   | 3,310.84 | 4   | 2,969.25 | 4   | 2,627.66 | 4   | 2,286.07 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,277.19 | 1/4 | 3,971.88 | 1/4 | 3,645.05 | 1/4 | 3,303.73 | 1/4 | 2,962.13 | 1/4 | 2,620.54 | 1/4 | 2,278.95 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,271.05 | 1/2 | 3,965.29 | 1/2 | 3,638.00 | 1/2 | 3,296.61 | 1/2 | 2,955.02 | 1/2 | 2,613.42 | 1/2 | 2,271.83 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,264.91 | 3/4 | 3,958.71 | 3/4 | 3,630.94 | 3/4 | 3,289.49 | 3/4 | 2,947.90 | 3/4 | 2,606.31 | 3/4 | 2,264.72 |
| 5   |       | 5   |       | 5   |       | 5   | 4,258.74 | 5   | 3,952.09 | 5   | 3,623.86 | 5   | 3,282.38 | 5   | 2,940.78 | 5   | 2,599.19 | 5   | 2,257.60 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,252.56 | 1/4 | 3,945.47 | 1/4 | 3,616.77 | 1/4 | 3,275.26 | 1/4 | 2,933.67 | 1/4 | 2,592.08 | 1/4 | 2,250.48 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,246.39 | 1/2 | 3,938.85 | 1/2 | 3,609.68 | 1/2 | 3,268.14 | 1/2 | 2,926.55 | 1/2 | 2,584.96 | 1/2 | 2,243.37 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,240.21 | 3/4 | 3,932.23 | 3/4 | 3,602.59 | 3/4 | 3,261.03 | 3/4 | 2,919.43 | 3/4 | 2,577.84 | 3/4 | 2,236.25 |
| 6   |       | 6   |       | 6   |       | 6   | 4,234.00 | 6   | 3,925.57 | 6   | 3,595.48 | 6   | 3,253.91 | 6   | 2,912.32 | 6   | 2,570.73 | 6   | 2,229.13 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,227.79 | 1/4 | 3,918.91 | 1/4 | 3,588.37 | 1/4 | 3,246.79 | 1/4 | 2,905.20 | 1/4 | 2,563.61 | 1/4 | 2,222.02 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,526.46 | 1/2 | 3,912.25 | 1/2 | 3,581.26 | 1/2 | 3,239.68 | 1/2 | 2,898.08 | 1/2 | 2,556.49 | 1/2 | 2,214.90 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,522.22 | 3/4 | 3,905.59 | 3/4 | 3,574.15 | 3/4 | 3,232.56 | 3/4 | 2,890.97 | 3/4 | 2,549.38 | 3/4 | 2,207.78 |
| 7   |       | 7   |       | 7   |       | 7   | 4,516.55 | 7   | 4,209.12 | 7   | 3,898.90 | 7   | 3,567.04 | 7   | 3,225.44 | 7   | 2,883.85 | 7   | 2,542.26 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,510.89 | 1/4 | 4,202.87 | 1/4 | 3,892.20 | 1/4 | 3,559.92 | 1/4 | 3,218.33 | 1/4 | 2,876.74 | 1/4 | 2,535.14 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,505.23 | 1/2 | 4,196.62 | 1/2 | 3,885.51 | 1/2 | 3,552.80 | 1/2 | 3,211.21 | 1/2 | 2,869.62 | 1/2 | 2,528.03 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,499.56 | 3/4 | 4,190.37 | 3/4 | 3,878.81 | 3/4 | 3,545.69 | 3/4 | 3,204.09 | 3/4 | 2,862.50 | 3/4 | 2,520.91 |
| 8   |       | 8   |       | 8   |       | 8   | 4,492.74 | 8   | 4,184.08 | 8   | 3,872.08 | 8   | 3,538.57 | 8   | 3,196.98 | 8   | 2,855.39 | 8   | 2,513.79 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,485.92 | 1/4 | 4,177.80 | 1/4 | 3,865.35 | 1/4 | 3,531.45 | 1/4 | 3,189.86 | 1/4 | 2,848.27 | 1/4 | 2,506.68 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,479.10 | 1/2 | 4,171.51 | 1/2 | 3,858.62 | 1/2 | 3,524.34 | 1/2 | 3,182.75 | 1/2 | 2,841.15 | 1/2 | 2,499.56 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,472.28 | 3/4 | 4,165.23 | 3/4 | 3,851.88 | 3/4 | 3,517.22 | 3/4 | 3,175.63 | 3/4 | 2,834.04 | 3/4 | 2,492.44 |
| 9   |       | 9   |       | 9   |       | 9   | 4,465.19 | 9   | 4,158.90 | 9   | 3,845.11 | 9   | 3,510.10 | 9   | 3,168.51 | 9   | 2,826.92 | 9   | 2,485.33 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,458.10 | 1/4 | 4,152.58 | 1/4 | 3,838.35 | 1/4 | 3,502.99 | 1/4 | 3,161.40 | 1/4 | 2,819.80 | 1/4 | 2,478.21 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,451.02 | 1/2 | 4,146.25 | 1/2 | 3,831.58 | 1/2 | 3,495.87 | 1/2 | 3,154.28 | 1/2 | 2,812.69 | 1/2 | 2,471.09 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,443.93 | 3/4 | 4,139.93 | 3/4 | 3,824.81 | 3/4 | 3,488.75 | 3/4 | 3,147.16 | 3/4 | 2,805.57 | 3/4 | 2,463.98 |
| 10  |       | 10  |       | 10  |       | 10  | 4,436.84 | 10  | 4,133.57 | 10  | 3,818.00 | 10  | 3,481.64 | 10  | 3,140.05 | 10  | 2,798.45 | 10  | 2,456.86 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,429.75 | 1/4 | 4,127.21 | 1/4 | 3,811.19 | 1/4 | 3,474.52 | 1/4 | 3,132.93 | 1/4 | 2,791.34 | 1/4 | 2,449.75 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,422.66 | 1/2 | 4,120.85 | 1/2 | 3,804.39 | 1/2 | 3,467.41 | 1/2 | 3,125.81 | 1/2 | 2,784.22 | 1/2 | 2,442.63 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,415.58 | 3/4 | 4,114.49 | 3/4 | 3,797.58 | 3/4 | 3,460.29 | 3/4 | 3,118.70 | 3/4 | 2,777.10 | 3/4 | 2,435.51 |
| 11  |       | 11  |       | 11  |       | 11  | 4,408.49 | 11  | 4,108.09 | 11  | 3,790.74 | 11  | 3,453.17 | 11  | 3,111.58 | 11  | 2,769.99 | 11  | 2,428.40 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,401.40 | 1/4 | 4,101.69 | 1/4 | 3,783.89 | 1/4 | 3,446.06 | 1/4 | 3,104.46 | 1/4 | 2,762.87 | 1/4 | 2,421.28 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,394.31 | 1/2 | 4,095.29 | 1/2 | 3,777.05 | 1/2 | 3,438.94 | 1/2 | 3,097.35 | 1/2 | 2,755.75 | 1/2 | 2,414.16 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,387.22 | 3/4 | 4,088.90 | 3/4 | 3,770.20 | 3/4 | 3,431.82 | 3/4 | 3,090.23 | 3/4 | 2,748.64 | 3/4 | 2,407.05 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 37'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
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 Pearland, Texas 77588  
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# BARGE "KIRBY 29065"

**1 STBD  
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

**GAUGE HEIGHT 16'-04 3/4"**

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,058.34 | 0   | 1,716.75 | 0   | 1,375.15 | 0   | 1,033.56 | 0   | 693.36 | 0   | 377.46 | 0   | 93.94  | 0   |        | 0   |        |     |        |
| 1/4 | 2,051.22 | 1/4 | 1,709.63 | 1/4 | 1,368.04 | 1/4 | 1,026.45 | 1/4 | 686.46 | 1/4 | 371.23 | 1/4 | 88.39  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,044.10 | 1/2 | 1,702.51 | 1/2 | 1,360.92 | 1/2 | 1,019.33 | 1/2 | 679.55 | 1/2 | 365.01 | 1/2 | 82.83  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,036.99 | 3/4 | 1,695.40 | 3/4 | 1,353.80 | 3/4 | 1,012.21 | 3/4 | 672.64 | 3/4 | 358.78 | 3/4 | 77.27  | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,029.87 | 1   | 1,688.28 | 1   | 1,346.69 | 1   | 1,005.10 | 1   | 665.80 | 1   | 352.61 | 1   | 71.77  | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,022.76 | 1/4 | 1,681.16 | 1/4 | 1,339.57 | 1/4 | 997.98   | 1/4 | 658.95 | 1/4 | 346.44 | 1/4 | 66.27  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,015.64 | 1/2 | 1,674.05 | 1/2 | 1,332.45 | 1/2 | 990.86   | 1/2 | 652.10 | 1/2 | 340.26 | 1/2 | 60.77  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,008.52 | 3/4 | 1,666.93 | 3/4 | 1,325.34 | 3/4 | 983.75   | 3/4 | 645.25 | 3/4 | 334.09 | 3/4 | 55.27  | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,001.41 | 2   | 1,659.81 | 2   | 1,318.22 | 2   | 976.63   | 2   | 638.45 | 2   | 327.98 | 2   | 49.83  | 2   |        | 2   |        | 2   |        |
| 1/4 | 1,994.29 | 1/4 | 1,652.70 | 1/4 | 1,311.11 | 1/4 | 969.51   | 1/4 | 631.66 | 1/4 | 321.86 | 1/4 | 44.39  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,987.17 | 1/2 | 1,645.58 | 1/2 | 1,303.99 | 1/2 | 962.40   | 1/2 | 624.87 | 1/2 | 315.75 | 1/2 | 38.94  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,980.06 | 3/4 | 1,638.46 | 3/4 | 1,296.87 | 3/4 | 955.28   | 3/4 | 618.07 | 3/4 | 309.63 | 3/4 | 33.50  | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 1,972.94 | 3   | 1,631.35 | 3   | 1,289.76 | 3   | 948.16   | 3   | 611.34 | 3   | 303.57 | 3   | 28.78  | 3   |        | 3   |        | 3   |        |
| 1/4 | 1,965.82 | 1/4 | 1,624.23 | 1/4 | 1,282.64 | 1/4 | 941.05   | 1/4 | 604.60 | 1/4 | 297.51 | 1/4 | 24.06  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,958.71 | 1/2 | 1,617.11 | 1/2 | 1,275.52 | 1/2 | 933.93   | 1/2 | 597.86 | 1/2 | 291.46 | 1/2 | 19.34  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,951.59 | 3/4 | 1,610.00 | 3/4 | 1,268.41 | 3/4 | 926.81   | 3/4 | 591.13 | 3/4 | 285.40 | 3/4 | 14.62  | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 1,944.47 | 4   | 1,602.88 | 4   | 1,261.29 | 4   | 919.70   | 4   | 584.45 | 4   | 279.39 | 4   | 11.51  | 4   |        | 4   |        | 4   |        |
| 1/4 | 1,937.36 | 1/4 | 1,595.77 | 1/4 | 1,254.17 | 1/4 | 912.58   | 1/4 | 577.76 | 1/4 | 273.39 | 1/4 | 8.40   | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,930.24 | 1/2 | 1,588.65 | 1/2 | 1,247.06 | 1/2 | 905.46   | 1/2 | 571.08 | 1/2 | 267.38 | 1/2 | 5.29   | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,923.12 | 3/4 | 1,581.53 | 3/4 | 1,239.94 | 3/4 | 898.35   | 3/4 | 564.40 | 3/4 | 261.38 | 3/4 | 2.19   | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 1,916.01 | 5   | 1,574.42 | 5   | 1,232.82 | 5   | 891.23   | 5   | 557.78 | 5   | 255.43 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 1,908.89 | 1/4 | 1,567.30 | 1/4 | 1,225.71 | 1/4 | 884.12   | 1/4 | 551.15 | 1/4 | 249.48 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,901.77 | 1/2 | 1,560.18 | 1/2 | 1,218.59 | 1/2 | 877.00   | 1/2 | 544.53 | 1/2 | 243.53 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,894.66 | 3/4 | 1,553.07 | 3/4 | 1,211.47 | 3/4 | 869.88   | 3/4 | 537.90 | 3/4 | 237.58 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 1,887.54 | 6   | 1,545.95 | 6   | 1,204.36 | 6   | 862.77   | 6   | 531.34 | 6   | 231.68 | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 1,880.43 | 1/4 | 1,538.83 | 1/4 | 1,197.24 | 1/4 | 855.65   | 1/4 | 524.77 | 1/4 | 225.79 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,873.31 | 1/2 | 1,531.72 | 1/2 | 1,190.12 | 1/2 | 848.53   | 1/2 | 518.20 | 1/2 | 219.89 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,866.19 | 3/4 | 1,524.60 | 3/4 | 1,183.01 | 3/4 | 841.42   | 3/4 | 511.63 | 3/4 | 214.00 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 1,859.08 | 7   | 1,517.48 | 7   | 1,175.89 | 7   | 834.30   | 7   | 505.12 | 7   | 208.16 | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 1,851.96 | 1/4 | 1,510.37 | 1/4 | 1,168.78 | 1/4 | 827.18   | 1/4 | 498.61 | 1/4 | 202.33 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,844.84 | 1/2 | 1,503.25 | 1/2 | 1,161.66 | 1/2 | 820.07   | 1/2 | 492.09 | 1/2 | 196.49 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,837.73 | 3/4 | 1,496.13 | 3/4 | 1,154.54 | 3/4 | 812.95   | 3/4 | 485.58 | 3/4 | 190.65 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 1,830.61 | 8   | 1,489.02 | 8   | 1,147.43 | 8   | 805.83   | 8   | 479.13 | 8   | 184.87 | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 1,823.49 | 1/4 | 1,481.90 | 1/4 | 1,140.31 | 1/4 | 798.72   | 1/4 | 472.68 | 1/4 | 179.09 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,816.38 | 1/2 | 1,474.78 | 1/2 | 1,133.19 | 1/2 | 791.60   | 1/2 | 466.22 | 1/2 | 173.31 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,809.26 | 3/4 | 1,467.67 | 3/4 | 1,126.08 | 3/4 | 784.48   | 3/4 | 459.77 | 3/4 | 167.53 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 1,802.14 | 9   | 1,460.55 | 9   | 1,118.96 | 9   | 777.41   | 9   | 453.37 | 9   | 161.80 | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 1,795.03 | 1/4 | 1,453.44 | 1/4 | 1,111.84 | 1/4 | 770.34   | 1/4 | 446.98 | 1/4 | 156.08 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,787.91 | 1/2 | 1,446.32 | 1/2 | 1,104.73 | 1/2 | 763.26   | 1/2 | 440.58 | 1/2 | 150.35 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,780.79 | 3/4 | 1,439.20 | 3/4 | 1,097.61 | 3/4 | 756.19   | 3/4 | 434.18 | 3/4 | 144.63 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 1,773.68 | 10  | 1,432.09 | 10  | 1,090.49 | 10  | 749.17   | 10  | 427.84 | 10  | 138.96 | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 1,766.56 | 1/4 | 1,424.97 | 1/4 | 1,083.38 | 1/4 | 742.15   | 1/4 | 421.50 | 1/4 | 133.29 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,759.44 | 1/2 | 1,417.85 | 1/2 | 1,076.26 | 1/2 | 735.13   | 1/2 | 415.16 | 1/2 | 127.62 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,752.33 | 3/4 | 1,410.74 | 3/4 | 1,069.14 | 3/4 | 728.12   | 3/4 | 408.82 | 3/4 | 121.95 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,745.21 | 11  | 1,403.62 | 11  | 1,062.03 | 11  | 721.15   | 11  | 402.54 | 11  | 116.34 | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,738.10 | 1/4 | 1,396.50 | 1/4 | 1,054.91 | 1/4 | 714.19   | 1/4 | 396.26 | 1/4 | 110.73 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,730.98 | 1/2 | 1,389.39 | 1/2 | 1,047.79 | 1/2 | 707.23   | 1/2 | 389.97 | 1/2 | 105.11 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,723.86 | 3/4 | 1,382.27 | 3/4 | 1,040.68 | 3/4 | 700.27   | 3/4 | 383.69 | 3/4 | 99.50  | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2017 SW  
CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT.    | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |          | 0   | 5,086.08 | 0   | 4,748.23 | 0   | 4,385.57 | 0   | 4,001.41 | 0   | 3,614.45 | 0   | 3,227.50 | 0   | 2,840.54 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 5,079.06 | 1/4 | 4,740.94 | 1/4 | 4,377.78 | 1/4 | 3,993.35 | 1/4 | 3,606.39 | 1/4 | 3,219.43 | 1/4 | 2,832.48 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 5,072.33 | 1/2 | 4,733.60 | 1/2 | 4,369.94 | 1/2 | 3,985.29 | 1/2 | 3,598.33 | 1/2 | 3,211.37 | 1/2 | 2,824.42 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 5,065.59 | 3/4 | 4,726.27 | 3/4 | 4,362.10 | 3/4 | 3,977.22 | 3/4 | 3,590.27 | 3/4 | 3,203.31 | 3/4 | 2,816.35 |
| 1   |       | 1   |       | 1   |          | 1   | 5,058.85 | 1   | 4,718.93 | 1   | 4,354.26 | 1   | 3,969.16 | 1   | 3,582.21 | 1   | 3,195.25 | 1   | 2,808.29 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 5,052.12 | 1/4 | 4,711.60 | 1/4 | 4,346.42 | 1/4 | 3,961.10 | 1/4 | 3,574.14 | 1/4 | 3,187.19 | 1/4 | 2,800.23 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 5,045.34 | 1/2 | 4,704.22 | 1/2 | 4,338.54 | 1/2 | 3,953.04 | 1/2 | 3,566.08 | 1/2 | 3,179.13 | 1/2 | 2,792.17 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 5,038.56 | 3/4 | 4,696.85 | 3/4 | 4,330.66 | 3/4 | 3,944.98 | 3/4 | 3,558.02 | 3/4 | 3,171.06 | 3/4 | 2,784.11 |
| 2   |       | 2   |       | 2   |          | 2   | 5,031.78 | 2   | 4,689.47 | 2   | 4,322.78 | 2   | 3,936.92 | 2   | 3,549.96 | 2   | 3,163.00 | 2   | 2,776.05 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 5,025.00 | 1/4 | 4,682.09 | 1/4 | 4,314.90 | 1/4 | 3,928.86 | 1/4 | 3,541.90 | 1/4 | 3,154.94 | 1/4 | 2,767.98 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 5,018.11 | 1/2 | 4,674.67 | 1/2 | 4,306.96 | 1/2 | 3,920.79 | 1/2 | 3,533.84 | 1/2 | 3,146.88 | 1/2 | 2,759.92 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 5,011.22 | 3/4 | 4,667.25 | 3/4 | 4,299.02 | 3/4 | 3,912.73 | 3/4 | 3,525.78 | 3/4 | 3,138.82 | 3/4 | 2,751.86 |
| 3   |       | 3   |       | 3   |          | 3   | 5,004.33 | 3   | 4,659.83 | 3   | 4,291.08 | 3   | 3,904.67 | 3   | 3,517.71 | 3   | 3,130.76 | 3   | 2,743.80 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 4,997.44 | 1/4 | 4,652.42 | 1/4 | 4,283.14 | 1/4 | 3,896.61 | 1/4 | 3,509.65 | 1/4 | 3,122.70 | 1/4 | 2,735.74 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 4,990.48 | 1/2 | 4,644.96 | 1/2 | 4,275.15 | 1/2 | 3,888.55 | 1/2 | 3,501.59 | 1/2 | 3,114.63 | 1/2 | 2,727.68 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 4,983.52 | 3/4 | 4,637.49 | 3/4 | 4,267.16 | 3/4 | 3,880.49 | 3/4 | 3,493.53 | 3/4 | 3,106.57 | 3/4 | 2,719.62 |
| 4   |       | 4   |       | 4   |          | 4   | 4,976.57 | 4   | 4,630.03 | 4   | 4,259.17 | 4   | 3,872.42 | 4   | 3,485.47 | 4   | 3,098.51 | 4   | 2,711.55 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 4,969.61 | 1/4 | 4,622.57 | 1/4 | 4,251.19 | 1/4 | 3,864.36 | 1/4 | 3,477.41 | 1/4 | 3,090.45 | 1/4 | 2,703.49 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 4,962.61 | 1/2 | 4,615.07 | 1/2 | 4,243.16 | 1/2 | 3,856.30 | 1/2 | 3,469.34 | 1/2 | 3,082.39 | 1/2 | 2,695.43 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 4,955.61 | 3/4 | 4,607.57 | 3/4 | 4,235.13 | 3/4 | 3,848.24 | 3/4 | 3,461.28 | 3/4 | 3,074.33 | 3/4 | 2,687.37 |
| 5   |       | 5   |       | 5   |          | 5   | 4,948.61 | 5   | 4,600.06 | 5   | 4,227.10 | 5   | 3,840.18 | 5   | 3,453.22 | 5   | 3,066.26 | 5   | 2,679.31 |
| 1/4 |       | 1/4 |       | 1/4 |          | 1/4 | 4,941.61 | 1/4 | 4,592.56 | 1/4 | 4,219.07 | 1/4 | 3,832.12 | 1/4 | 3,445.16 | 1/4 | 3,058.20 | 1/4 | 2,671.25 |
| 1/2 |       | 1/2 |       | 1/2 |          | 1/2 | 4,934.57 | 1/2 | 4,585.02 | 1/2 | 4,211.01 | 1/2 | 3,824.05 | 1/2 | 3,437.10 | 1/2 | 3,050.14 | 1/2 | 2,663.18 |
| 3/4 |       | 3/4 |       | 3/4 |          | 3/4 | 4,927.53 | 3/4 | 4,577.47 | 3/4 | 4,202.95 | 3/4 | 3,815.99 | 3/4 | 3,429.04 | 3/4 | 3,042.08 | 3/4 | 2,655.12 |
| 6   |       | 6   |       | 6   | 5,263.05 | 6   | 4,920.49 | 6   | 4,569.93 | 6   | 4,194.89 | 6   | 3,807.93 | 6   | 3,420.97 | 6   | 3,034.02 | 6   | 2,647.06 |
| 1/4 |       | 1/4 |       | 1/4 | 5,258.33 | 1/4 | 4,913.45 | 1/4 | 4,562.38 | 1/4 | 4,186.83 | 1/4 | 3,799.87 | 1/4 | 3,412.91 | 1/4 | 3,025.96 | 1/4 | 2,639.00 |
| 1/2 |       | 1/2 |       | 1/2 | 5,252.00 | 1/2 | 4,906.37 | 1/2 | 4,554.79 | 1/2 | 4,178.76 | 1/2 | 3,791.81 | 1/2 | 3,404.85 | 1/2 | 3,017.89 | 1/2 | 2,630.94 |
| 3/4 |       | 3/4 |       | 3/4 | 5,245.67 | 3/4 | 4,899.28 | 3/4 | 4,547.21 | 3/4 | 4,170.70 | 3/4 | 3,783.75 | 3/4 | 3,396.79 | 3/4 | 3,009.83 | 3/4 | 2,622.88 |
| 7   |       | 7   |       | 7   | 5,239.34 | 7   | 4,892.20 | 7   | 4,539.62 | 7   | 4,162.64 | 7   | 3,775.68 | 7   | 3,388.73 | 7   | 3,001.77 | 7   | 2,614.81 |
| 1/4 |       | 1/4 |       | 1/4 | 5,233.01 | 1/4 | 4,885.12 | 1/4 | 4,532.03 | 1/4 | 4,154.58 | 1/4 | 3,767.62 | 1/4 | 3,380.67 | 1/4 | 2,993.71 | 1/4 | 2,606.75 |
| 1/2 |       | 1/2 |       | 1/2 | 5,225.37 | 1/2 | 4,877.99 | 1/2 | 4,524.41 | 1/2 | 4,146.52 | 1/2 | 3,759.56 | 1/2 | 3,372.60 | 1/2 | 2,985.65 | 1/2 | 2,598.69 |
| 3/4 |       | 3/4 |       | 3/4 | 5,217.73 | 3/4 | 4,870.87 | 3/4 | 4,516.78 | 3/4 | 4,138.46 | 3/4 | 3,751.50 | 3/4 | 3,364.54 | 3/4 | 2,977.59 | 3/4 | 2,590.63 |
| 8   |       | 8   |       | 8   | 5,210.08 | 8   | 4,863.74 | 8   | 4,509.15 | 8   | 4,130.40 | 8   | 3,743.44 | 8   | 3,356.48 | 8   | 2,969.52 | 8   | 2,582.57 |
| 1/4 |       | 1/4 |       | 1/4 | 5,202.44 | 1/4 | 4,856.62 | 1/4 | 4,501.52 | 1/4 | 4,122.33 | 1/4 | 3,735.38 | 1/4 | 3,348.42 | 1/4 | 2,961.46 | 1/4 | 2,574.51 |
| 1/2 |       | 1/2 |       | 1/2 | 5,194.50 | 1/2 | 4,849.45 | 1/2 | 4,493.85 | 1/2 | 4,114.27 | 1/2 | 3,727.32 | 1/2 | 3,340.36 | 1/2 | 2,953.40 | 1/2 | 2,566.44 |
| 3/4 |       | 3/4 |       | 3/4 | 5,186.56 | 3/4 | 4,842.28 | 3/4 | 4,486.18 | 3/4 | 4,106.21 | 3/4 | 3,719.25 | 3/4 | 3,332.30 | 3/4 | 2,945.34 | 3/4 | 2,558.38 |
| 9   |       | 9   |       | 9   | 5,178.61 | 9   | 4,835.12 | 9   | 4,478.51 | 9   | 4,098.15 | 9   | 3,711.19 | 9   | 3,324.24 | 9   | 2,937.28 | 9   | 2,550.31 |
| 1/4 |       | 1/4 |       | 1/4 | 5,170.67 | 1/4 | 4,827.95 | 1/4 | 4,470.84 | 1/4 | 4,090.09 | 1/4 | 3,703.13 | 1/4 | 3,316.17 | 1/4 | 2,929.22 | 1/4 | 2,542.25 |
| 1/2 |       | 1/2 |       | 1/2 | 5,162.73 | 1/2 | 4,820.74 | 1/2 | 4,463.12 | 1/2 | 4,082.03 | 1/2 | 3,695.07 | 1/2 | 3,308.11 | 1/2 | 2,921.16 | 1/2 | 2,534.18 |
| 3/4 |       | 3/4 |       | 3/4 | 5,154.78 | 3/4 | 4,813.53 | 3/4 | 4,455.41 | 3/4 | 4,073.96 | 3/4 | 3,687.01 | 3/4 | 3,300.05 | 3/4 | 2,913.09 | 3/4 | 2,526.11 |
| 10  |       | 10  |       | 10  | 5,146.84 | 10  | 4,806.32 | 10  | 4,447.70 | 10  | 4,065.90 | 10  | 3,678.95 | 10  | 3,291.99 | 10  | 2,905.03 | 10  | 2,518.05 |
| 1/4 |       | 1/4 |       | 1/4 | 5,138.89 | 1/4 | 4,799.11 | 1/4 | 4,439.98 | 1/4 | 4,057.84 | 1/4 | 3,670.88 | 1/4 | 3,283.93 | 1/4 | 2,896.97 | 1/4 | 2,509.98 |
| 1/2 |       | 1/2 |       | 1/2 | 5,130.95 | 1/2 | 4,791.86 | 1/2 | 4,432.23 | 1/2 | 4,049.78 | 1/2 | 3,662.82 | 1/2 | 3,275.87 | 1/2 | 2,888.91 | 1/2 | 2,501.92 |
| 3/4 |       | 3/4 |       | 3/4 | 5,123.01 | 3/4 | 4,784.61 | 3/4 | 4,424.47 | 3/4 | 4,041.72 | 3/4 | 3,654.76 | 3/4 | 3,267.80 | 3/4 | 2,880.85 | 3/4 | 2,493.85 |
| 11  |       | 11  |       | 11  | 5,115.06 | 11  | 4,777.36 | 11  | 4,416.72 | 11  | 4,033.66 | 11  | 3,646.70 | 11  | 3,259.74 | 11  | 2,872.79 | 11  | 2,485.78 |
| 1/4 |       | 1/4 |       | 1/4 | 5,107.12 | 1/4 | 4,770.11 | 1/4 | 4,408.97 | 1/4 | 4,025.59 | 1/4 | 3,638.64 | 1/4 | 3,251.68 | 1/4 | 2,864.72 | 1/4 | 2,477.72 |
| 1/2 |       | 1/2 |       | 1/2 | 5,100.11 | 1/2 | 4,762.82 | 1/2 | 4,401.17 | 1/2 | 4,017.53 | 1/2 | 3,630.58 | 1/2 | 3,243.62 | 1/2 | 2,856.66 | 1/2 | 2,469.65 |
| 3/4 |       | 3/4 |       | 3/4 | 5,093.09 | 3/4 | 4,755.52 | 3/4 | 4,393.37 | 3/4 | 4,009.47 | 3/4 | 3,622.51 | 3/4 | 3,235.56 | 3/4 | 2,848.60 | 3/4 | 2,461.59 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588

<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 1/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,453.52 | 0   | 2,066.35 | 0   | 1,679.18 | 0   | 1,292.02 | 0   | 905.55 | 0   | 532.60 | 0   | 145.56 | 0   |        | 0   |        | 0   |        |
| 1/4 | 2,445.45 | 1/4 | 2,058.29 | 1/4 | 1,671.12 | 1/4 | 1,283.95 | 1/4 | 897.72 | 1/4 | 524.62 | 1/4 | 137.49 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,437.39 | 1/2 | 2,050.22 | 1/2 | 1,663.05 | 1/2 | 1,275.88 | 1/2 | 889.96 | 1/2 | 516.55 | 1/2 | 129.43 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,429.32 | 3/4 | 2,042.15 | 3/4 | 1,654.99 | 3/4 | 1,267.82 | 3/4 | 882.21 | 3/4 | 508.49 | 3/4 | 121.36 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 2,421.26 | 1   | 2,034.09 | 1   | 1,646.92 | 1   | 1,259.75 | 1   | 874.45 | 1   | 500.43 | 1   | 113.29 | 1   | 1      | 1   | 1      | 1   | 1      |
| 1/4 | 2,413.19 | 1/4 | 2,026.02 | 1/4 | 1,638.85 | 1/4 | 1,251.69 | 1/4 | 866.70 | 1/4 | 492.37 | 1/4 | 105.23 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,405.12 | 1/2 | 2,017.96 | 1/2 | 1,630.79 | 1/2 | 1,243.62 | 1/2 | 858.94 | 1/2 | 484.30 | 1/2 | 97.16  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,397.06 | 3/4 | 2,009.89 | 3/4 | 1,622.72 | 3/4 | 1,235.55 | 3/4 | 851.19 | 3/4 | 476.24 | 3/4 | 89.10  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 2,388.99 | 2   | 2,001.82 | 2   | 1,614.66 | 2   | 1,227.49 | 2   | 843.43 | 2   | 468.18 | 2   | 81.03  | 2   | 2      | 2   | 2      | 2   | 2      |
| 1/4 | 2,380.93 | 1/4 | 1,993.76 | 1/4 | 1,606.59 | 1/4 | 1,219.42 | 1/4 | 835.68 | 1/4 | 460.11 | 1/4 | 72.96  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,372.86 | 1/2 | 1,985.69 | 1/2 | 1,598.52 | 1/2 | 1,211.36 | 1/2 | 827.92 | 1/2 | 452.05 | 1/2 | 65.65  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,364.79 | 3/4 | 1,977.63 | 3/4 | 1,590.46 | 3/4 | 1,203.29 | 3/4 | 820.17 | 3/4 | 443.99 | 3/4 | 58.34  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 2,356.73 | 3   | 1,969.56 | 3   | 1,582.39 | 3   | 1,195.22 | 3   | 812.41 | 3   | 435.93 | 3   | 51.03  | 3   | 3      | 3   | 3      | 3   | 3      |
| 1/4 | 2,348.66 | 1/4 | 1,961.49 | 1/4 | 1,574.33 | 1/4 | 1,187.16 | 1/4 | 804.66 | 1/4 | 427.86 | 1/4 | 43.72  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,340.60 | 1/2 | 1,953.43 | 1/2 | 1,566.26 | 1/2 | 1,179.09 | 1/2 | 796.90 | 1/2 | 419.80 | 1/2 | 38.18  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,332.53 | 3/4 | 1,945.36 | 3/4 | 1,558.19 | 3/4 | 1,171.03 | 3/4 | 789.15 | 3/4 | 411.73 | 3/4 | 32.63  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 2,324.46 | 4   | 1,937.30 | 4   | 1,550.13 | 4   | 1,162.96 | 4   | 781.39 | 4   | 403.67 | 4   | 27.09  | 4   | 4      | 4   | 4      | 4   | 4      |
| 1/4 | 2,316.40 | 1/4 | 1,929.23 | 1/4 | 1,542.06 | 1/4 | 1,154.89 | 1/4 | 773.64 | 1/4 | 395.60 | 1/4 | 21.54  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,308.33 | 1/2 | 1,921.16 | 1/2 | 1,534.00 | 1/2 | 1,146.83 | 1/2 | 765.88 | 1/2 | 387.54 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,300.27 | 3/4 | 1,913.10 | 3/4 | 1,525.93 | 3/4 | 1,138.76 | 3/4 | 758.13 | 3/4 | 379.47 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 2,292.20 | 5   | 1,905.03 | 5   | 1,517.86 | 5   | 1,130.70 | 5   | 750.37 | 5   | 371.41 | 5   |        | 5   | 5      | 5   | 5      | 5   | 5      |
| 1/4 | 2,284.13 | 1/4 | 1,896.97 | 1/4 | 1,509.80 | 1/4 | 1,122.63 | 1/4 | 742.62 | 1/4 | 363.34 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,276.07 | 1/2 | 1,888.90 | 1/2 | 1,501.73 | 1/2 | 1,114.56 | 1/2 | 734.86 | 1/2 | 355.27 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,268.00 | 3/4 | 1,880.83 | 3/4 | 1,493.67 | 3/4 | 1,106.50 | 3/4 | 727.11 | 3/4 | 347.21 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 2,259.94 | 6   | 1,872.77 | 6   | 1,485.60 | 6   | 1,098.43 | 6   | 719.35 | 6   | 339.14 | 6   |        | 6   | 6      | 6   | 6      | 6   | 6      |
| 1/4 | 2,251.87 | 1/4 | 1,864.70 | 1/4 | 1,477.53 | 1/4 | 1,090.37 | 1/4 | 711.60 | 1/4 | 331.08 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,243.80 | 1/2 | 1,856.64 | 1/2 | 1,469.47 | 1/2 | 1,082.30 | 1/2 | 703.85 | 1/2 | 323.01 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,235.74 | 3/4 | 1,848.57 | 3/4 | 1,461.40 | 3/4 | 1,074.23 | 3/4 | 696.09 | 3/4 | 314.94 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 2,227.67 | 7   | 1,840.50 | 7   | 1,453.34 | 7   | 1,066.17 | 7   | 688.34 | 7   | 306.88 | 7   |        | 7   | 7      | 7   | 7      | 7   | 7      |
| 1/4 | 2,219.61 | 1/4 | 1,832.44 | 1/4 | 1,445.27 | 1/4 | 1,058.10 | 1/4 | 680.58 | 1/4 | 298.81 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,211.54 | 1/2 | 1,824.37 | 1/2 | 1,437.20 | 1/2 | 1,050.04 | 1/2 | 672.83 | 1/2 | 290.75 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,203.47 | 3/4 | 1,816.31 | 3/4 | 1,429.14 | 3/4 | 1,041.97 | 3/4 | 665.08 | 3/4 | 282.68 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 2,195.41 | 8   | 1,808.24 | 8   | 1,421.07 | 8   | 1,033.90 | 8   | 657.32 | 8   | 274.61 | 8   |        | 8   | 8      | 8   | 8      | 8   | 8      |
| 1/4 | 2,187.34 | 1/4 | 1,800.17 | 1/4 | 1,413.01 | 1/4 | 1,025.84 | 1/4 | 649.57 | 1/4 | 266.55 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,179.28 | 1/2 | 1,792.11 | 1/2 | 1,404.94 | 1/2 | 1,017.77 | 1/2 | 641.82 | 1/2 | 258.48 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,171.21 | 3/4 | 1,784.04 | 3/4 | 1,396.87 | 3/4 | 1,009.71 | 3/4 | 634.07 | 3/4 | 250.42 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 2,163.14 | 9   | 1,775.98 | 9   | 1,388.81 | 9   | 1,001.64 | 9   | 626.32 | 9   | 242.35 | 9   |        | 9   | 9      | 9   | 9      | 9   | 9      |
| 1/4 | 2,155.08 | 1/4 | 1,767.91 | 1/4 | 1,380.74 | 1/4 | 993.57   | 1/4 | 618.57 | 1/4 | 234.28 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,147.01 | 1/2 | 1,759.84 | 1/2 | 1,372.68 | 1/2 | 985.51   | 1/2 | 610.81 | 1/2 | 226.22 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,138.95 | 3/4 | 1,751.78 | 3/4 | 1,364.61 | 3/4 | 977.44   | 3/4 | 603.06 | 3/4 | 218.15 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 2,130.88 | 10  | 1,743.71 | 10  | 1,356.54 | 10  | 969.38   | 10  | 595.31 | 10  | 210.09 | 10  |        | 10  | 10     | 10  | 10     | 10  | 10     |
| 1/4 | 2,122.81 | 1/4 | 1,735.65 | 1/4 | 1,348.48 | 1/4 | 961.31   | 1/4 | 587.56 | 1/4 | 202.02 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,114.75 | 1/2 | 1,727.58 | 1/2 | 1,340.41 | 1/2 | 953.24   | 1/2 | 579.81 | 1/2 | 193.95 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,106.68 | 3/4 | 1,719.51 | 3/4 | 1,332.35 | 3/4 | 945.18   | 3/4 | 572.06 | 3/4 | 185.89 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 2,098.62 | 11  | 1,711.45 | 11  | 1,324.28 | 11  | 937.11   | 11  | 564.31 | 11  | 177.82 | 11  |        | 11  | 11     | 11  | 11     | 11  | 11     |
| 1/4 | 2,090.55 | 1/4 | 1,703.38 | 1/4 | 1,316.21 | 1/4 | 929.05   | 1/4 | 556.55 | 1/4 | 169.76 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,082.48 | 1/2 | 1,695.32 | 1/2 | 1,308.15 | 1/2 | 921.21   | 1/2 | 548.57 | 1/2 | 161.69 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,074.42 | 3/4 | 1,687.25 | 3/4 | 1,300.08 | 3/4 | 913.38   | 3/4 | 540.59 | 3/4 | 153.62 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

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# BARGE "KIRBY 29065"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |       | 0   | 5,135.98 | 0   | 4,797.40 | 0   | 4,434.31 | 0   | 4,049.13 | 0   | 3,660.57 | 0   | 3,272.01 | 0   | 2,883.45 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,128.94 | 1/4 | 4,790.08 | 1/4 | 4,426.49 | 1/4 | 4,041.04 | 1/4 | 3,652.48 | 1/4 | 3,263.92 | 1/4 | 2,875.36 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,121.90 | 1/2 | 4,782.76 | 1/2 | 4,418.66 | 1/2 | 4,032.94 | 1/2 | 3,644.38 | 1/2 | 3,255.82 | 1/2 | 2,867.26 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,114.86 | 3/4 | 4,775.44 | 3/4 | 4,410.83 | 3/4 | 4,024.85 | 3/4 | 3,636.29 | 3/4 | 3,247.73 | 3/4 | 2,859.17 |
| 1   |       | 1   |       | 1   |       | 1   | 5,108.10 | 1   | 4,768.08 | 1   | 4,402.96 | 1   | 4,016.75 | 1   | 3,628.19 | 1   | 3,239.63 | 1   | 2,851.07 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,101.34 | 1/4 | 4,760.71 | 1/4 | 4,395.09 | 1/4 | 4,008.66 | 1/4 | 3,620.10 | 1/4 | 3,231.54 | 1/4 | 2,842.98 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,094.57 | 1/2 | 4,753.35 | 1/2 | 4,387.22 | 1/2 | 4,000.56 | 1/2 | 3,612.00 | 1/2 | 3,223.44 | 1/2 | 2,834.88 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,087.81 | 3/4 | 4,745.98 | 3/4 | 4,379.35 | 3/4 | 3,992.47 | 3/4 | 3,603.91 | 3/4 | 3,215.35 | 3/4 | 2,826.79 |
| 2   |       | 2   |       | 2   |       | 2   | 5,081.01 | 2   | 4,738.58 | 2   | 4,371.43 | 2   | 3,984.37 | 2   | 3,595.81 | 2   | 3,207.25 | 2   | 2,818.69 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,074.21 | 1/4 | 4,731.17 | 1/4 | 4,363.52 | 1/4 | 3,976.28 | 1/4 | 3,587.72 | 1/4 | 3,199.16 | 1/4 | 2,810.60 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,067.40 | 1/2 | 4,723.77 | 1/2 | 4,355.61 | 1/2 | 3,968.18 | 1/2 | 3,579.62 | 1/2 | 3,191.06 | 1/2 | 2,802.50 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,060.60 | 3/4 | 4,716.36 | 3/4 | 4,347.70 | 3/4 | 3,960.09 | 3/4 | 3,571.53 | 3/4 | 3,182.97 | 3/4 | 2,794.41 |
| 3   |       | 3   |       | 3   |       | 3   | 5,053.68 | 3   | 4,708.91 | 3   | 4,339.72 | 3   | 3,951.99 | 3   | 3,563.43 | 3   | 3,174.87 | 3   | 2,786.31 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,046.76 | 1/4 | 4,701.46 | 1/4 | 4,331.75 | 1/4 | 3,943.90 | 1/4 | 3,555.34 | 1/4 | 3,166.78 | 1/4 | 2,778.22 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,039.85 | 1/2 | 4,694.02 | 1/2 | 4,323.78 | 1/2 | 3,935.80 | 1/2 | 3,547.24 | 1/2 | 3,158.68 | 1/2 | 2,770.12 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,032.93 | 3/4 | 4,686.57 | 3/4 | 4,315.80 | 3/4 | 3,927.71 | 3/4 | 3,539.15 | 3/4 | 3,150.59 | 3/4 | 2,762.03 |
| 4   |       | 4   |       | 4   |       | 4   | 5,025.94 | 4   | 4,679.08 | 4   | 4,307.78 | 4   | 3,919.61 | 4   | 3,531.05 | 4   | 3,142.49 | 4   | 2,753.93 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,018.96 | 1/4 | 4,671.59 | 1/4 | 4,299.76 | 1/4 | 3,911.52 | 1/4 | 3,522.96 | 1/4 | 3,134.40 | 1/4 | 2,745.84 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,011.98 | 1/2 | 4,664.10 | 1/2 | 4,291.74 | 1/2 | 3,903.42 | 1/2 | 3,514.86 | 1/2 | 3,126.30 | 1/2 | 2,737.74 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,004.99 | 3/4 | 4,656.61 | 3/4 | 4,283.72 | 3/4 | 3,895.33 | 3/4 | 3,506.77 | 3/4 | 3,118.21 | 3/4 | 2,729.65 |
| 5   |       | 5   |       | 5   |       | 5   | 4,997.97 | 5   | 4,649.07 | 5   | 4,275.66 | 5   | 3,887.23 | 5   | 3,498.67 | 5   | 3,110.11 | 5   | 2,721.55 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,990.94 | 1/4 | 4,641.54 | 1/4 | 4,267.59 | 1/4 | 3,879.14 | 1/4 | 3,490.58 | 1/4 | 3,102.02 | 1/4 | 2,713.46 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,983.92 | 1/2 | 4,634.01 | 1/2 | 4,259.53 | 1/2 | 3,871.04 | 1/2 | 3,482.48 | 1/2 | 3,093.92 | 1/2 | 2,705.36 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,976.89 | 3/4 | 4,626.48 | 3/4 | 4,251.47 | 3/4 | 3,862.95 | 3/4 | 3,474.39 | 3/4 | 3,085.83 | 3/4 | 2,697.27 |
| 6   |       | 6   |       | 6   |       | 6   | 4,969.82 | 6   | 4,618.90 | 6   | 4,243.38 | 6   | 3,854.85 | 6   | 3,466.29 | 6   | 3,077.73 | 6   | 2,689.17 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,962.76 | 1/4 | 4,611.33 | 1/4 | 4,235.30 | 1/4 | 3,846.76 | 1/4 | 3,458.20 | 1/4 | 3,069.64 | 1/4 | 2,681.08 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,299.59 | 1/2 | 4,955.69 | 1/2 | 4,603.75 | 1/2 | 4,227.21 | 1/2 | 3,838.66 | 1/2 | 3,450.10 | 1/2 | 3,061.54 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,294.85 | 3/4 | 4,948.62 | 3/4 | 4,596.18 | 3/4 | 4,219.13 | 3/4 | 3,830.57 | 3/4 | 3,442.01 | 3/4 | 3,053.45 |
| 7   |       | 7   |       | 7   |       | 7   | 5,288.50 | 7   | 4,941.51 | 7   | 4,588.56 | 7   | 4,211.03 | 7   | 3,822.47 | 7   | 3,433.91 | 7   | 3,045.35 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,282.14 | 1/4 | 4,934.40 | 1/4 | 4,580.94 | 1/4 | 4,202.94 | 1/4 | 3,814.38 | 1/4 | 3,425.82 | 1/4 | 3,037.26 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,275.78 | 1/2 | 4,927.29 | 1/2 | 4,573.33 | 1/2 | 4,194.84 | 1/2 | 3,806.28 | 1/2 | 3,417.72 | 1/2 | 3,029.16 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,269.43 | 3/4 | 4,920.18 | 3/4 | 4,565.71 | 3/4 | 4,186.75 | 3/4 | 3,798.19 | 3/4 | 3,409.63 | 3/4 | 3,021.07 |
| 8   |       | 8   |       | 8   |       | 8   | 5,261.75 | 8   | 4,913.03 | 8   | 4,558.05 | 8   | 4,178.65 | 8   | 3,790.09 | 8   | 3,401.53 | 8   | 3,012.97 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,254.08 | 1/4 | 4,905.87 | 1/4 | 4,550.39 | 1/4 | 4,170.56 | 1/4 | 3,782.00 | 1/4 | 3,393.44 | 1/4 | 3,004.88 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,246.41 | 1/2 | 4,898.72 | 1/2 | 4,542.73 | 1/2 | 4,162.46 | 1/2 | 3,773.90 | 1/2 | 3,385.34 | 1/2 | 2,996.78 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,238.74 | 3/4 | 4,891.57 | 3/4 | 4,535.07 | 3/4 | 4,154.37 | 3/4 | 3,765.81 | 3/4 | 3,377.25 | 3/4 | 2,988.69 |
| 9   |       | 9   |       | 9   |       | 9   | 5,230.76 | 9   | 4,884.37 | 9   | 4,527.37 | 9   | 4,146.27 | 9   | 3,757.71 | 9   | 3,369.15 | 9   | 2,980.59 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,222.79 | 1/4 | 4,877.18 | 1/4 | 4,519.67 | 1/4 | 4,138.18 | 1/4 | 3,749.62 | 1/4 | 3,361.06 | 1/4 | 2,972.50 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,214.81 | 1/2 | 4,869.98 | 1/2 | 4,511.97 | 1/2 | 4,130.08 | 1/2 | 3,741.52 | 1/2 | 3,352.96 | 1/2 | 2,964.40 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,206.83 | 3/4 | 4,862.79 | 3/4 | 4,504.26 | 3/4 | 4,121.99 | 3/4 | 3,733.43 | 3/4 | 3,344.87 | 3/4 | 2,956.31 |
| 10  |       | 10  |       | 10  |       | 10  | 5,198.86 | 10  | 4,855.55 | 10  | 4,496.52 | 10  | 4,113.89 | 10  | 3,725.33 | 10  | 3,336.77 | 10  | 2,948.21 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,190.88 | 1/4 | 4,848.32 | 1/4 | 4,488.78 | 1/4 | 4,105.80 | 1/4 | 3,717.24 | 1/4 | 3,328.68 | 1/4 | 2,940.12 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,182.90 | 1/2 | 4,841.08 | 1/2 | 4,481.03 | 1/2 | 4,097.70 | 1/2 | 3,709.14 | 1/2 | 3,320.58 | 1/2 | 2,932.02 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,174.93 | 3/4 | 4,833.84 | 3/4 | 4,473.29 | 3/4 | 4,089.61 | 3/4 | 3,701.05 | 3/4 | 3,312.49 | 3/4 | 2,923.93 |
| 11  |       | 11  |       | 11  |       | 11  | 5,166.95 | 11  | 4,826.56 | 11  | 4,465.50 | 11  | 4,081.51 | 11  | 3,692.95 | 11  | 3,304.39 | 11  | 2,915.83 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 5,158.98 | 1/4 | 4,819.28 | 1/4 | 4,457.72 | 1/4 | 4,073.42 | 1/4 | 3,684.86 | 1/4 | 3,296.30 | 1/4 | 2,907.74 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 5,151.00 | 1/2 | 4,812.00 | 1/2 | 4,449.93 | 1/2 | 4,065.32 | 1/2 | 3,676.76 | 1/2 | 3,288.20 | 1/2 | 2,899.64 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 5,143.02 | 3/4 | 4,804.73 | 3/4 | 4,442.14 | 3/4 | 4,057.23 | 3/4 | 3,668.67 | 3/4 | 3,280.11 | 3/4 | 2,891.55 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.

CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.

CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.

GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 44'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.

P.O. Box 2092  
Pearland, Texas 77588  
<http://www.pmacorp.net>





# BARGE "KIRBY 29065"

## 2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,494.85 | 0   | 2,106.08 | 0   | 1,717.31 | 0   | 1,328.55 | 0   | 939.78 | 0   | 551.07 | 0   | 162.36 | 0   |        | 0   |        |     |        |
| 1/4 | 2,486.75 | 1/4 | 2,097.98 | 1/4 | 1,709.21 | 1/4 | 1,320.45 | 1/4 | 931.68 | 1/4 | 542.97 | 1/4 | 154.26 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,478.65 | 1/2 | 2,089.88 | 1/2 | 1,701.11 | 1/2 | 1,312.35 | 1/2 | 923.58 | 1/2 | 534.88 | 1/2 | 146.16 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,470.55 | 3/4 | 2,081.78 | 3/4 | 1,693.01 | 3/4 | 1,304.25 | 3/4 | 915.48 | 3/4 | 526.78 | 3/4 | 138.06 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 2,462.45 | 1   | 2,073.68 | 1   | 1,684.92 | 1   | 1,296.15 | 1   | 907.38 | 1   | 518.69 | 1   | 129.96 | 1   |        | 1   |        |     | 1      |
| 1/4 | 2,454.35 | 1/4 | 2,065.58 | 1/4 | 1,676.82 | 1/4 | 1,288.05 | 1/4 | 899.28 | 1/4 | 510.59 | 1/4 | 121.86 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,446.25 | 1/2 | 2,057.48 | 1/2 | 1,668.72 | 1/2 | 1,279.95 | 1/2 | 891.18 | 1/2 | 502.49 | 1/2 | 113.76 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,438.15 | 3/4 | 2,049.38 | 3/4 | 1,660.62 | 3/4 | 1,271.85 | 3/4 | 883.08 | 3/4 | 494.40 | 3/4 | 105.66 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 2,430.05 | 2   | 2,041.28 | 2   | 1,652.52 | 2   | 1,263.75 | 2   | 874.99 | 2   | 486.30 | 2   | 97.57  | 2   |        | 2   |        |     | 2      |
| 1/4 | 2,421.95 | 1/4 | 2,033.19 | 1/4 | 1,644.42 | 1/4 | 1,255.65 | 1/4 | 866.89 | 1/4 | 478.21 | 1/4 | 89.47  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,413.85 | 1/2 | 2,025.09 | 1/2 | 1,636.32 | 1/2 | 1,247.55 | 1/2 | 858.79 | 1/2 | 470.11 | 1/2 | 81.37  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,405.75 | 3/4 | 2,016.99 | 3/4 | 1,628.22 | 3/4 | 1,239.45 | 3/4 | 850.69 | 3/4 | 462.01 | 3/4 | 73.27  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 2,397.65 | 3   | 2,008.89 | 3   | 1,620.12 | 3   | 1,231.35 | 3   | 842.59 | 3   | 453.92 | 3   | 65.93  | 3   |        | 3   |        |     | 3      |
| 1/4 | 2,389.55 | 1/4 | 2,000.79 | 1/4 | 1,612.02 | 1/4 | 1,223.26 | 1/4 | 834.49 | 1/4 | 445.82 | 1/4 | 58.59  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,381.46 | 1/2 | 1,992.69 | 1/2 | 1,603.92 | 1/2 | 1,215.16 | 1/2 | 826.39 | 1/2 | 437.73 | 1/2 | 51.25  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,373.36 | 3/4 | 1,984.59 | 3/4 | 1,595.82 | 3/4 | 1,207.06 | 3/4 | 818.29 | 3/4 | 429.63 | 3/4 | 43.91  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 2,365.26 | 4   | 1,976.49 | 4   | 1,587.72 | 4   | 1,198.96 | 4   | 810.19 | 4   | 421.53 | 4   | 38.34  | 4   |        | 4   |        |     | 4      |
| 1/4 | 2,357.16 | 1/4 | 1,968.39 | 1/4 | 1,579.62 | 1/4 | 1,190.86 | 1/4 | 802.09 | 1/4 | 413.44 | 1/4 | 32.77  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,349.06 | 1/2 | 1,960.29 | 1/2 | 1,571.53 | 1/2 | 1,182.76 | 1/2 | 793.99 | 1/2 | 405.34 | 1/2 | 27.20  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,340.96 | 3/4 | 1,952.19 | 3/4 | 1,563.43 | 3/4 | 1,174.66 | 3/4 | 785.89 | 3/4 | 397.24 | 3/4 | 21.63  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 2,332.86 | 5   | 1,944.09 | 5   | 1,555.33 | 5   | 1,166.56 | 5   | 777.79 | 5   | 389.14 | 5   |        | 5   |        | 5   |        |     | 5      |
| 1/4 | 2,324.76 | 1/4 | 1,935.99 | 1/4 | 1,547.23 | 1/4 | 1,158.46 | 1/4 | 769.69 | 1/4 | 381.04 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,316.66 | 1/2 | 1,927.89 | 1/2 | 1,539.13 | 1/2 | 1,150.36 | 1/2 | 761.60 | 1/2 | 372.94 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,308.56 | 3/4 | 1,919.80 | 3/4 | 1,531.03 | 3/4 | 1,142.26 | 3/4 | 753.50 | 3/4 | 364.84 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 2,300.46 | 6   | 1,911.70 | 6   | 1,522.93 | 6   | 1,134.16 | 6   | 745.40 | 6   | 356.74 | 6   |        | 6   |        | 6   |        |     | 6      |
| 1/4 | 2,292.36 | 1/4 | 1,903.60 | 1/4 | 1,514.83 | 1/4 | 1,126.06 | 1/4 | 737.30 | 1/4 | 348.64 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,284.26 | 1/2 | 1,895.50 | 1/2 | 1,506.73 | 1/2 | 1,117.96 | 1/2 | 729.20 | 1/2 | 340.54 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,276.16 | 3/4 | 1,887.40 | 3/4 | 1,498.63 | 3/4 | 1,109.87 | 3/4 | 721.10 | 3/4 | 332.45 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 2,268.07 | 7   | 1,879.30 | 7   | 1,490.53 | 7   | 1,101.77 | 7   | 713.00 | 7   | 324.35 | 7   |        | 7   |        | 7   |        |     | 7      |
| 1/4 | 2,259.97 | 1/4 | 1,871.20 | 1/4 | 1,482.43 | 1/4 | 1,093.67 | 1/4 | 704.90 | 1/4 | 316.25 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,251.87 | 1/2 | 1,863.10 | 1/2 | 1,474.33 | 1/2 | 1,085.57 | 1/2 | 696.80 | 1/2 | 308.15 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,243.77 | 3/4 | 1,855.00 | 3/4 | 1,466.23 | 3/4 | 1,077.47 | 3/4 | 688.70 | 3/4 | 300.05 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 2,235.67 | 8   | 1,846.90 | 8   | 1,458.14 | 8   | 1,069.37 | 8   | 680.61 | 8   | 291.95 | 8   |        | 8   |        | 8   |        |     | 8      |
| 1/4 | 2,227.57 | 1/4 | 1,838.80 | 1/4 | 1,450.04 | 1/4 | 1,061.27 | 1/4 | 672.51 | 1/4 | 283.85 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,219.47 | 1/2 | 1,830.70 | 1/2 | 1,441.94 | 1/2 | 1,053.17 | 1/2 | 664.41 | 1/2 | 275.75 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,211.37 | 3/4 | 1,822.60 | 3/4 | 1,433.84 | 3/4 | 1,045.07 | 3/4 | 656.32 | 3/4 | 267.65 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 2,203.27 | 9   | 1,814.50 | 9   | 1,425.74 | 9   | 1,036.97 | 9   | 648.22 | 9   | 259.55 | 9   |        | 9   |        | 9   |        |     | 9      |
| 1/4 | 2,195.17 | 1/4 | 1,806.41 | 1/4 | 1,417.64 | 1/4 | 1,028.87 | 1/4 | 640.12 | 1/4 | 251.45 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,187.07 | 1/2 | 1,798.31 | 1/2 | 1,409.54 | 1/2 | 1,020.77 | 1/2 | 632.03 | 1/2 | 243.35 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,178.97 | 3/4 | 1,790.21 | 3/4 | 1,401.44 | 3/4 | 1,012.67 | 3/4 | 623.93 | 3/4 | 235.25 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 2,170.87 | 10  | 1,782.11 | 10  | 1,393.34 | 10  | 1,004.57 | 10  | 615.84 | 10  | 227.15 | 10  |        | 10  |        | 10  |        |     | 10     |
| 1/4 | 2,162.77 | 1/4 | 1,774.01 | 1/4 | 1,385.24 | 1/4 | 996.48   | 1/4 | 607.74 | 1/4 | 219.06 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,154.68 | 1/2 | 1,765.91 | 1/2 | 1,377.14 | 1/2 | 988.38   | 1/2 | 599.64 | 1/2 | 210.96 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,146.58 | 3/4 | 1,757.81 | 3/4 | 1,369.04 | 3/4 | 980.28   | 3/4 | 591.55 | 3/4 | 202.86 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 2,138.48 | 11  | 1,749.71 | 11  | 1,360.94 | 11  | 972.18   | 11  | 583.45 | 11  | 194.76 | 11  |        | 11  |        | 11  |        |     | 11     |
| 1/4 | 2,130.38 | 1/4 | 1,741.61 | 1/4 | 1,352.84 | 1/4 | 964.08   | 1/4 | 575.36 | 1/4 | 186.66 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,122.28 | 1/2 | 1,733.51 | 1/2 | 1,344.75 | 1/2 | 955.98   | 1/2 | 567.26 | 1/2 | 178.56 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,114.18 | 3/4 | 1,725.41 | 3/4 | 1,336.65 | 3/4 | 947.88   | 3/4 | 559.17 | 3/4 | 170.46 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2017 SW  
CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |       | 0   | 4,509.57 | 0   | 4,253.37 | 0   | 3,978.77 | 0   | 3,687.24 | 0   | 3,383.42 | 0   | 3,023.91 | 0   | 2,663.86 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,504.23 | 1/4 | 4,247.82 | 1/4 | 3,972.84 | 1/4 | 3,681.10 | 1/4 | 3,375.93 | 1/4 | 3,016.41 | 1/4 | 2,656.36 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,498.90 | 1/2 | 4,242.28 | 1/2 | 3,966.91 | 1/2 | 3,674.97 | 1/2 | 3,368.44 | 1/2 | 3,008.91 | 1/2 | 2,648.86 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,493.57 | 3/4 | 4,236.73 | 3/4 | 3,960.98 | 3/4 | 3,668.84 | 3/4 | 3,360.95 | 3/4 | 3,001.41 | 3/4 | 2,641.36 |
| 1   |       | 1   |       | 1   |       | 1   | 4,488.24 | 1   | 4,231.19 | 1   | 3,955.06 | 1   | 3,662.71 | 1   | 3,353.46 | 1   | 2,993.91 | 1   | 2,633.86 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,483.12 | 1/4 | 4,225.61 | 1/4 | 3,949.09 | 1/4 | 3,656.58 | 1/4 | 3,345.98 | 1/4 | 2,986.41 | 1/4 | 2,626.36 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,478.00 | 1/2 | 4,220.03 | 1/2 | 3,943.13 | 1/2 | 3,650.45 | 1/2 | 3,338.49 | 1/2 | 2,978.91 | 1/2 | 2,618.86 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,472.87 | 3/4 | 4,214.46 | 3/4 | 3,937.17 | 3/4 | 3,644.32 | 3/4 | 3,331.01 | 3/4 | 2,971.40 | 3/4 | 2,611.36 |
| 2   |       | 2   |       | 2   |       | 2   | 4,467.75 | 2   | 4,208.88 | 2   | 3,931.21 | 2   | 3,638.19 | 2   | 3,323.52 | 2   | 2,963.90 | 2   | 2,603.86 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,462.60 | 1/4 | 4,203.27 | 1/4 | 3,925.22 | 1/4 | 3,632.06 | 1/4 | 3,316.03 | 1/4 | 2,956.40 | 1/4 | 2,596.35 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,457.45 | 1/2 | 4,197.66 | 1/2 | 3,919.23 | 1/2 | 3,625.93 | 1/2 | 3,308.55 | 1/2 | 2,948.90 | 1/2 | 2,588.85 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,452.30 | 3/4 | 4,192.05 | 3/4 | 3,913.23 | 3/4 | 3,619.80 | 3/4 | 3,301.06 | 3/4 | 2,941.40 | 3/4 | 2,581.35 |
| 3   |       | 3   |       | 3   |       | 3   | 4,447.14 | 3   | 4,186.45 | 3   | 3,907.24 | 3   | 3,613.67 | 3   | 3,293.58 | 3   | 2,933.90 | 3   | 2,573.85 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,441.91 | 1/4 | 4,180.80 | 1/4 | 3,901.20 | 1/4 | 3,607.54 | 1/4 | 3,286.09 | 1/4 | 2,926.40 | 1/4 | 2,566.35 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,436.67 | 1/2 | 4,175.16 | 1/2 | 3,895.16 | 1/2 | 3,601.40 | 1/2 | 3,278.60 | 1/2 | 2,918.90 | 1/2 | 2,558.85 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,431.43 | 3/4 | 4,169.52 | 3/4 | 3,889.13 | 3/4 | 3,595.27 | 3/4 | 3,271.12 | 3/4 | 2,911.40 | 3/4 | 2,551.35 |
| 4   |       | 4   |       | 4   |       | 4   | 4,426.19 | 4   | 4,163.88 | 4   | 3,883.09 | 4   | 3,589.14 | 4   | 3,263.63 | 4   | 2,903.90 | 4   | 2,543.85 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,420.90 | 1/4 | 4,158.21 | 1/4 | 3,877.01 | 1/4 | 3,583.01 | 1/4 | 3,256.15 | 1/4 | 2,896.39 | 1/4 | 2,536.35 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,415.61 | 1/2 | 4,152.54 | 1/2 | 3,870.94 | 1/2 | 3,576.88 | 1/2 | 3,248.66 | 1/2 | 2,888.89 | 1/2 | 2,528.85 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,410.32 | 3/4 | 4,146.86 | 3/4 | 3,864.86 | 3/4 | 3,570.75 | 3/4 | 3,241.17 | 3/4 | 2,881.39 | 3/4 | 2,521.34 |
| 5   |       | 5   |       | 5   |       | 5   | 4,405.03 | 5   | 4,141.19 | 5   | 3,858.79 | 5   | 3,564.62 | 5   | 3,233.69 | 5   | 2,873.89 | 5   | 2,513.84 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,399.71 | 1/4 | 4,135.49 | 1/4 | 3,852.68 | 1/4 | 3,558.49 | 1/4 | 3,226.20 | 1/4 | 2,866.39 | 1/4 | 2,506.34 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,394.39 | 1/2 | 4,129.78 | 1/2 | 3,846.57 | 1/2 | 3,552.36 | 1/2 | 3,218.72 | 1/2 | 2,858.89 | 1/2 | 2,498.84 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,389.07 | 3/4 | 4,124.08 | 3/4 | 3,840.47 | 3/4 | 3,546.23 | 3/4 | 3,211.23 | 3/4 | 2,851.39 | 3/4 | 2,491.34 |
| 6   |       | 6   |       | 6   |       | 6   | 4,383.75 | 6   | 4,118.37 | 6   | 3,834.36 | 6   | 3,540.10 | 6   | 3,203.74 | 6   | 2,843.89 | 6   | 2,483.84 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,378.40 | 1/4 | 4,112.64 | 1/4 | 3,828.23 | 1/4 | 3,533.97 | 1/4 | 3,196.26 | 1/4 | 2,836.39 | 1/4 | 2,476.34 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,373.05 | 1/2 | 4,106.90 | 1/2 | 3,822.11 | 1/2 | 3,527.83 | 1/2 | 3,188.77 | 1/2 | 2,828.89 | 1/2 | 2,468.84 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,626.27 | 3/4 | 4,367.69 | 3/4 | 4,101.16 | 3/4 | 3,815.98 | 3/4 | 3,521.70 | 3/4 | 3,181.29 | 3/4 | 2,461.34 |
| 7   |       | 7   |       | 7   |       | 7   | 4,623.24 | 7   | 4,362.34 | 7   | 4,095.43 | 7   | 3,809.85 | 7   | 3,515.57 | 7   | 3,173.80 | 7   | 2,453.84 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,618.70 | 1/4 | 4,356.96 | 1/4 | 4,089.66 | 1/4 | 3,803.72 | 1/4 | 3,509.44 | 1/4 | 3,166.31 | 1/4 | 2,446.33 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,614.16 | 1/2 | 4,351.57 | 1/2 | 4,083.89 | 1/2 | 3,797.59 | 1/2 | 3,503.32 | 1/2 | 3,158.83 | 1/2 | 2,438.83 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,609.63 | 3/4 | 4,346.19 | 3/4 | 4,078.12 | 3/4 | 3,791.46 | 3/4 | 3,497.19 | 3/4 | 3,151.34 | 3/4 | 2,431.33 |
| 8   |       | 8   |       | 8   |       | 8   | 4,605.09 | 8   | 4,340.80 | 8   | 4,072.35 | 8   | 3,785.33 | 8   | 3,491.06 | 8   | 3,143.86 | 8   | 2,423.83 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,599.33 | 1/4 | 4,335.38 | 1/4 | 4,066.55 | 1/4 | 3,779.20 | 1/4 | 3,484.93 | 1/4 | 3,136.37 | 1/4 | 2,416.33 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,593.57 | 1/2 | 4,329.97 | 1/2 | 4,060.75 | 1/2 | 3,773.07 | 1/2 | 3,478.80 | 1/2 | 3,128.88 | 1/2 | 2,408.83 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,587.81 | 3/4 | 4,324.55 | 3/4 | 4,054.95 | 3/4 | 3,766.94 | 3/4 | 3,472.68 | 3/4 | 3,121.40 | 3/4 | 2,401.34 |
| 9   |       | 9   |       | 9   |       | 9   | 4,582.06 | 9   | 4,319.13 | 9   | 4,049.15 | 9   | 3,760.81 | 9   | 3,466.55 | 9   | 3,113.91 | 9   | 2,753.88 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,576.01 | 1/4 | 4,313.69 | 1/4 | 4,043.31 | 1/4 | 3,754.67 | 1/4 | 3,460.42 | 1/4 | 3,106.41 | 1/4 | 2,746.37 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,569.97 | 1/2 | 4,308.24 | 1/2 | 4,037.48 | 1/2 | 3,748.54 | 1/2 | 3,454.29 | 1/2 | 3,098.92 | 1/2 | 2,738.84 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,563.93 | 3/4 | 4,302.79 | 3/4 | 4,031.65 | 3/4 | 3,742.41 | 3/4 | 3,448.17 | 3/4 | 3,091.42 | 3/4 | 2,731.34 |
| 10  |       | 10  |       | 10  |       | 10  | 4,557.89 | 10  | 4,297.34 | 10  | 4,025.82 | 10  | 3,736.28 | 10  | 3,442.04 | 10  | 3,083.92 | 10  | 2,723.87 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,551.85 | 1/4 | 4,291.86 | 1/4 | 4,019.95 | 1/4 | 3,730.15 | 1/4 | 3,434.88 | 1/4 | 3,076.42 | 1/4 | 2,716.37 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,545.81 | 1/2 | 4,286.38 | 1/2 | 4,014.09 | 1/2 | 3,724.02 | 1/2 | 3,427.73 | 1/2 | 3,068.92 | 1/2 | 2,708.87 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,539.77 | 3/4 | 4,280.90 | 3/4 | 4,008.22 | 3/4 | 3,717.89 | 3/4 | 3,420.57 | 3/4 | 3,061.42 | 3/4 | 2,701.37 |
| 11  |       | 11  |       | 11  |       | 11  | 4,533.73 | 11  | 4,275.42 | 11  | 4,002.36 | 11  | 3,711.76 | 11  | 3,413.42 | 11  | 3,053.92 | 11  | 2,693.87 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,527.69 | 1/4 | 4,269.90 | 1/4 | 3,996.46 | 1/4 | 3,705.63 | 1/4 | 3,405.92 | 1/4 | 3,046.41 | 1/4 | 2,686.37 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,521.65 | 1/2 | 4,264.39 | 1/2 | 3,990.56 | 1/2 | 3,699.50 | 1/2 | 3,398.42 | 1/2 | 3,038.91 | 1/2 | 2,678.87 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,515.61 | 3/4 | 4,258.88 | 3/4 | 3,984.67 | 3/4 | 3,693.37 | 3/4 | 3,390.92 | 3/4 | 3,031.41 | 3/4 | 2,671.36 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 39'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
 & ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
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# BARGE "KIRBY 29065"

## 3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,303.83 | 0   | 1,943.45 | 0   | 1,585.61 | 0   | 1,225.66 | 0   | 865.59 | 0   | 518.35 | 0   | 158.27 | 0   |        | 0   |        |     |        |
| 1/4 | 2,296.33 | 1/4 | 1,935.96 | 1/4 | 1,578.14 | 1/4 | 1,218.16 | 1/4 | 858.29 | 1/4 | 510.92 | 1/4 | 150.76 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,288.82 | 1/2 | 1,928.47 | 1/2 | 1,570.67 | 1/2 | 1,210.66 | 1/2 | 850.99 | 1/2 | 503.48 | 1/2 | 143.24 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,281.32 | 3/4 | 1,920.99 | 3/4 | 1,563.21 | 3/4 | 1,203.16 | 3/4 | 843.69 | 3/4 | 496.05 | 3/4 | 135.73 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 1   | 2,273.82 | 1   | 1,913.50 | 1   | 1,555.74 | 1   | 1,195.65 | 1   | 836.39 | 1   | 488.61 | 1   | 128.22 | 1   |        | 1   |        |     |        |
| 1/4 | 2,266.31 | 1/4 | 1,906.04 | 1/4 | 1,548.24 | 1/4 | 1,188.15 | 1/4 | 829.16 | 1/4 | 481.11 | 1/4 | 120.70 | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,258.81 | 1/2 | 1,898.58 | 1/2 | 1,540.75 | 1/2 | 1,180.65 | 1/2 | 821.93 | 1/2 | 473.60 | 1/2 | 113.18 | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,251.30 | 3/4 | 1,891.12 | 3/4 | 1,533.25 | 3/4 | 1,173.15 | 3/4 | 814.71 | 3/4 | 466.10 | 3/4 | 105.66 | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 2   | 2,243.80 | 2   | 1,883.66 | 2   | 1,525.76 | 2   | 1,165.64 | 2   | 807.48 | 2   | 458.59 | 2   | 98.14  | 2   |        | 2   |        |     |        |
| 1/4 | 2,236.29 | 1/4 | 1,876.21 | 1/4 | 1,518.26 | 1/4 | 1,158.14 | 1/4 | 800.25 | 1/4 | 451.08 | 1/4 | 90.62  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,228.78 | 1/2 | 1,868.76 | 1/2 | 1,510.75 | 1/2 | 1,150.64 | 1/2 | 793.02 | 1/2 | 443.58 | 1/2 | 83.10  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,221.28 | 3/4 | 1,861.31 | 3/4 | 1,503.25 | 3/4 | 1,143.14 | 3/4 | 785.79 | 3/4 | 436.07 | 3/4 | 75.58  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 3   | 2,213.77 | 3   | 1,853.86 | 3   | 1,495.75 | 3   | 1,135.63 | 3   | 778.56 | 3   | 428.57 | 3   | 68.06  | 3   |        | 3   |        |     |        |
| 1/4 | 2,206.26 | 1/4 | 1,846.41 | 1/4 | 1,488.25 | 1/4 | 1,128.13 | 1/4 | 771.33 | 1/4 | 421.06 | 1/4 | 61.24  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,198.75 | 1/2 | 1,838.95 | 1/2 | 1,480.74 | 1/2 | 1,120.63 | 1/2 | 764.10 | 1/2 | 413.56 | 1/2 | 54.43  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,191.24 | 3/4 | 1,831.50 | 3/4 | 1,473.24 | 3/4 | 1,113.13 | 3/4 | 756.87 | 3/4 | 406.05 | 3/4 | 47.61  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 4   | 2,183.73 | 4   | 1,824.05 | 4   | 1,465.74 | 4   | 1,105.63 | 4   | 749.64 | 4   | 398.55 | 4   | 40.79  | 4   |        | 4   |        |     |        |
| 1/4 | 2,176.22 | 1/4 | 1,816.60 | 1/4 | 1,458.24 | 1/4 | 1,098.13 | 1/4 | 742.41 | 1/4 | 391.04 | 1/4 | 35.62  | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,168.71 | 1/2 | 1,809.15 | 1/2 | 1,450.73 | 1/2 | 1,090.63 | 1/2 | 735.18 | 1/2 | 383.53 | 1/2 | 30.45  | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,161.21 | 3/4 | 1,801.70 | 3/4 | 1,443.23 | 3/4 | 1,083.13 | 3/4 | 727.95 | 3/4 | 376.02 | 3/4 | 25.28  | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 5   | 2,153.70 | 5   | 1,794.25 | 5   | 1,435.73 | 5   | 1,075.63 | 5   | 720.72 | 5   | 368.51 | 5   | 20.11  | 5   |        | 5   |        |     |        |
| 1/4 | 2,146.19 | 1/4 | 1,786.80 | 1/4 | 1,428.23 | 1/4 | 1,068.13 | 1/4 | 713.50 | 1/4 | 361.01 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,138.68 | 1/2 | 1,779.34 | 1/2 | 1,420.72 | 1/2 | 1,060.63 | 1/2 | 706.27 | 1/2 | 353.50 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,131.17 | 3/4 | 1,771.89 | 3/4 | 1,413.22 | 3/4 | 1,053.13 | 3/4 | 699.04 | 3/4 | 345.99 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 6   | 2,123.66 | 6   | 1,764.44 | 6   | 1,405.72 | 6   | 1,045.63 | 6   | 691.81 | 6   | 338.48 | 6   |        | 6   |        | 6   |        |     |        |
| 1/4 | 2,116.15 | 1/4 | 1,756.99 | 1/4 | 1,398.22 | 1/4 | 1,038.13 | 1/4 | 684.58 | 1/4 | 330.97 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,108.64 | 1/2 | 1,749.54 | 1/2 | 1,390.71 | 1/2 | 1,030.63 | 1/2 | 677.35 | 1/2 | 323.46 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,101.13 | 3/4 | 1,742.09 | 3/4 | 1,383.21 | 3/4 | 1,023.12 | 3/4 | 670.12 | 3/4 | 315.95 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 7   | 2,093.63 | 7   | 1,734.64 | 7   | 1,375.71 | 7   | 1,015.62 | 7   | 662.89 | 7   | 308.44 | 7   |        | 7   |        | 7   |        |     |        |
| 1/4 | 2,086.12 | 1/4 | 1,727.19 | 1/4 | 1,368.21 | 1/4 | 1,008.12 | 1/4 | 655.66 | 1/4 | 300.93 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,078.61 | 1/2 | 1,719.73 | 1/2 | 1,360.71 | 1/2 | 1,000.62 | 1/2 | 648.43 | 1/2 | 293.43 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,071.10 | 3/4 | 1,712.28 | 3/4 | 1,353.20 | 3/4 | 993.12   | 3/4 | 641.20 | 3/4 | 285.92 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 8   | 2,063.59 | 8   | 1,704.83 | 8   | 1,345.70 | 8   | 985.62   | 8   | 633.97 | 8   | 278.41 | 8   |        | 8   |        | 8   |        |     |        |
| 1/4 | 2,056.08 | 1/4 | 1,697.38 | 1/4 | 1,338.20 | 1/4 | 978.12   | 1/4 | 626.75 | 1/4 | 270.90 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,048.57 | 1/2 | 1,689.93 | 1/2 | 1,330.70 | 1/2 | 970.62   | 1/2 | 619.52 | 1/2 | 263.39 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,041.06 | 3/4 | 1,682.48 | 3/4 | 1,323.19 | 3/4 | 963.12   | 3/4 | 612.29 | 3/4 | 255.88 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 9   | 2,033.55 | 9   | 1,675.03 | 9   | 1,315.69 | 9   | 955.62   | 9   | 605.07 | 9   | 248.37 | 9   |        | 9   |        | 9   |        |     |        |
| 1/4 | 2,026.05 | 1/4 | 1,667.57 | 1/4 | 1,308.19 | 1/4 | 948.12   | 1/4 | 597.84 | 1/4 | 240.86 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 2,018.54 | 1/2 | 1,660.12 | 1/2 | 1,300.69 | 1/2 | 940.62   | 1/2 | 590.61 | 1/2 | 233.36 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 2,011.03 | 3/4 | 1,652.67 | 3/4 | 1,293.18 | 3/4 | 933.12   | 3/4 | 583.39 | 3/4 | 225.85 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 10  | 2,003.52 | 10  | 1,645.22 | 10  | 1,285.68 | 10  | 925.62   | 10  | 576.16 | 10  | 218.34 | 10  |        | 10  |        | 10  |        |     |        |
| 1/4 | 1,996.01 | 1/4 | 1,637.77 | 1/4 | 1,278.18 | 1/4 | 918.12   | 1/4 | 568.94 | 1/4 | 210.83 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 1,988.50 | 1/2 | 1,630.32 | 1/2 | 1,270.68 | 1/2 | 910.62   | 1/2 | 561.71 | 1/2 | 203.32 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 1,980.99 | 3/4 | 1,622.87 | 3/4 | 1,263.17 | 3/4 | 903.12   | 3/4 | 554.48 | 3/4 | 195.81 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |
| 11  | 1,973.48 | 11  | 1,615.42 | 11  | 1,255.67 | 11  | 895.62   | 11  | 547.26 | 11  | 188.31 | 11  |        | 11  |        | 11  |        |     |        |
| 1/4 | 1,965.97 | 1/4 | 1,607.96 | 1/4 | 1,248.17 | 1/4 | 888.11   | 1/4 | 540.03 | 1/4 | 180.80 | 1/4 |        | 1/4 | 1/4    | 1/4 | 1/4    | 1/4 | 1/4    |
| 1/2 | 1,958.47 | 1/2 | 1,600.51 | 1/2 | 1,240.67 | 1/2 | 880.60   | 1/2 | 532.81 | 1/2 | 173.29 | 1/2 |        | 1/2 | 1/2    | 1/2 | 1/2    | 1/2 | 1/2    |
| 3/4 | 1,950.96 | 3/4 | 1,593.06 | 3/4 | 1,233.16 | 3/4 | 873.10   | 3/4 | 525.58 | 3/4 | 165.78 | 3/4 |        | 3/4 | 3/4    | 3/4 | 3/4    | 3/4 | 3/4    |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2017 SW  
CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2017

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
P.O. Box 2092  
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<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

| IN  | 0 FT. | IN  | 1 FT. | IN  | 2 FT. | IN  | 3 FT.    | IN  | 4 FT.    | IN  | 5 FT.    | IN  | 6 FT.    | IN  | 7 FT.    | IN  | 8 FT.    | IN  | 9 FT.    |
|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0   |       | 0   |       | 0   |       | 0   | 4,535.88 | 0   | 4,278.87 | 0   | 4,003.26 | 0   | 3,710.86 | 0   | 3,405.00 | 0   | 3,044.10 | 0   | 2,682.67 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,530.53 | 1/4 | 4,273.31 | 1/4 | 3,997.31 | 1/4 | 3,704.72 | 1/4 | 3,397.48 | 1/4 | 3,036.57 | 1/4 | 2,675.14 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,525.19 | 1/2 | 4,267.75 | 1/2 | 3,991.37 | 1/2 | 3,698.57 | 1/2 | 3,389.97 | 1/2 | 3,029.05 | 1/2 | 2,667.61 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,519.84 | 3/4 | 4,262.19 | 3/4 | 3,985.43 | 3/4 | 3,692.43 | 3/4 | 3,382.45 | 3/4 | 3,021.52 | 3/4 | 2,660.08 |
| 1   |       | 1   |       | 1   |       | 1   | 4,514.71 | 1   | 4,256.60 | 1   | 3,979.45 | 1   | 3,686.28 | 1   | 3,374.94 | 1   | 3,013.99 | 1   | 2,652.56 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,509.58 | 1/4 | 4,251.01 | 1/4 | 3,973.48 | 1/4 | 3,680.14 | 1/4 | 3,367.42 | 1/4 | 3,006.46 | 1/4 | 2,645.03 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,504.45 | 1/2 | 4,245.42 | 1/2 | 3,967.51 | 1/2 | 3,673.99 | 1/2 | 3,359.91 | 1/2 | 2,998.93 | 1/2 | 2,637.50 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,499.31 | 3/4 | 4,239.83 | 3/4 | 3,961.53 | 3/4 | 3,667.85 | 3/4 | 3,352.39 | 3/4 | 2,991.40 | 3/4 | 2,629.97 |
| 2   |       | 2   |       | 2   |       | 2   | 4,494.15 | 2   | 4,234.21 | 2   | 3,955.53 | 2   | 3,661.70 | 2   | 3,344.88 | 2   | 2,983.87 | 2   | 2,622.44 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,488.98 | 1/4 | 4,228.59 | 1/4 | 3,949.52 | 1/4 | 3,655.56 | 1/4 | 3,337.36 | 1/4 | 2,976.34 | 1/4 | 2,614.91 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,483.82 | 1/2 | 4,222.97 | 1/2 | 3,943.51 | 1/2 | 3,649.42 | 1/2 | 3,329.85 | 1/2 | 2,968.81 | 1/2 | 2,607.38 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,478.65 | 3/4 | 4,217.35 | 3/4 | 3,937.51 | 3/4 | 3,643.27 | 3/4 | 3,322.33 | 3/4 | 2,961.28 | 3/4 | 2,599.85 |
| 3   |       | 3   |       | 3   |       | 3   | 4,473.40 | 3   | 4,211.69 | 3   | 3,931.45 | 3   | 3,637.13 | 3   | 3,314.82 | 3   | 2,953.75 | 3   | 2,592.32 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,468.15 | 1/4 | 4,206.04 | 1/4 | 3,925.40 | 1/4 | 3,630.98 | 1/4 | 3,307.30 | 1/4 | 2,946.22 | 1/4 | 2,584.79 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,462.90 | 1/2 | 4,200.39 | 1/2 | 3,919.35 | 1/2 | 3,624.84 | 1/2 | 3,299.79 | 1/2 | 2,938.69 | 1/2 | 2,577.26 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,457.65 | 3/4 | 4,194.73 | 3/4 | 3,913.30 | 3/4 | 3,618.69 | 3/4 | 3,292.27 | 3/4 | 2,931.16 | 3/4 | 2,569.73 |
| 4   |       | 4   |       | 4   |       | 4   | 4,452.35 | 4   | 4,189.05 | 4   | 3,907.21 | 4   | 3,612.55 | 4   | 3,284.76 | 4   | 2,923.63 | 4   | 2,562.20 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,447.05 | 1/4 | 4,183.36 | 1/4 | 3,901.12 | 1/4 | 3,606.40 | 1/4 | 3,277.25 | 1/4 | 2,916.10 | 1/4 | 2,554.67 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,441.75 | 1/2 | 4,177.68 | 1/2 | 3,895.03 | 1/2 | 3,600.26 | 1/2 | 3,269.73 | 1/2 | 2,908.57 | 1/2 | 2,547.14 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,436.45 | 3/4 | 4,171.99 | 3/4 | 3,888.94 | 3/4 | 3,594.11 | 3/4 | 3,262.22 | 3/4 | 2,901.04 | 3/4 | 2,539.61 |
| 5   |       | 5   |       | 5   |       | 5   | 4,431.11 | 5   | 4,166.27 | 5   | 3,882.82 | 5   | 3,587.97 | 5   | 3,254.70 | 5   | 2,893.51 | 5   | 2,532.08 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,425.78 | 1/4 | 4,160.55 | 1/4 | 3,876.70 | 1/4 | 3,581.82 | 1/4 | 3,247.19 | 1/4 | 2,885.98 | 1/4 | 2,524.55 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,420.45 | 1/2 | 4,154.84 | 1/2 | 3,870.58 | 1/2 | 3,575.68 | 1/2 | 3,239.67 | 1/2 | 2,878.45 | 1/2 | 2,517.02 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,415.11 | 3/4 | 4,149.12 | 3/4 | 3,864.46 | 3/4 | 3,569.53 | 3/4 | 3,232.16 | 3/4 | 2,870.92 | 3/4 | 2,509.49 |
| 6   |       | 6   |       | 6   |       | 6   | 4,409.75 | 6   | 4,143.37 | 6   | 3,858.32 | 6   | 3,563.39 | 6   | 3,224.64 | 6   | 2,863.39 | 6   | 2,501.96 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,404.38 | 1/4 | 4,137.62 | 1/4 | 3,852.18 | 1/4 | 3,557.24 | 1/4 | 3,217.13 | 1/4 | 2,855.86 | 1/4 | 2,494.43 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,658.19 | 1/2 | 4,399.02 | 1/2 | 4,131.87 | 1/2 | 3,846.04 | 1/2 | 3,551.10 | 1/2 | 3,209.61 | 1/2 | 2,848.33 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,655.15 | 3/4 | 4,393.65 | 3/4 | 4,126.12 | 3/4 | 3,839.90 | 3/4 | 3,544.96 | 3/4 | 3,202.10 | 3/4 | 2,840.80 |
| 7   |       | 7   |       | 7   |       | 7   | 4,650.60 | 7   | 4,388.25 | 7   | 4,120.34 | 7   | 3,833.76 | 7   | 3,538.81 | 7   | 3,194.58 | 7   | 2,833.27 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,646.06 | 1/4 | 4,382.86 | 1/4 | 4,114.56 | 1/4 | 3,827.61 | 1/4 | 3,532.67 | 1/4 | 3,187.07 | 1/4 | 2,825.74 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,641.51 | 1/2 | 4,377.46 | 1/2 | 4,108.77 | 1/2 | 3,821.47 | 1/2 | 3,526.53 | 1/2 | 3,179.55 | 1/2 | 2,818.21 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,636.96 | 3/4 | 4,372.06 | 3/4 | 4,102.99 | 3/4 | 3,815.32 | 3/4 | 3,520.39 | 3/4 | 3,172.04 | 3/4 | 2,810.68 |
| 8   |       | 8   |       | 8   |       | 8   | 4,631.19 | 8   | 4,366.63 | 8   | 4,097.18 | 8   | 3,809.18 | 8   | 3,514.25 | 8   | 3,164.52 | 8   | 2,803.15 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,625.42 | 1/4 | 4,361.20 | 1/4 | 4,091.36 | 1/4 | 3,803.03 | 1/4 | 3,508.10 | 1/4 | 3,157.01 | 1/4 | 2,795.62 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,619.65 | 1/2 | 4,355.77 | 1/2 | 4,085.55 | 1/2 | 3,796.89 | 1/2 | 3,501.96 | 1/2 | 3,149.49 | 1/2 | 2,788.09 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,613.88 | 3/4 | 4,350.35 | 3/4 | 4,079.74 | 3/4 | 3,790.74 | 3/4 | 3,495.82 | 3/4 | 3,141.98 | 3/4 | 2,780.56 |
| 9   |       | 9   |       | 9   |       | 9   | 4,607.82 | 9   | 4,344.88 | 9   | 4,073.89 | 9   | 3,784.60 | 9   | 3,489.68 | 9   | 3,134.45 | 9   | 2,773.03 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,601.77 | 1/4 | 4,339.42 | 1/4 | 4,068.04 | 1/4 | 3,778.45 | 1/4 | 3,483.54 | 1/4 | 3,126.93 | 1/4 | 2,765.50 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,595.71 | 1/2 | 4,333.96 | 1/2 | 4,062.20 | 1/2 | 3,772.31 | 1/2 | 3,477.40 | 1/2 | 3,119.40 | 1/2 | 2,757.97 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,589.66 | 3/4 | 4,328.50 | 3/4 | 4,056.35 | 3/4 | 3,766.16 | 3/4 | 3,471.26 | 3/4 | 3,111.87 | 3/4 | 2,750.44 |
| 10  |       | 10  |       | 10  |       | 10  | 4,583.61 | 10  | 4,323.01 | 10  | 4,050.47 | 10  | 3,760.02 | 10  | 3,464.08 | 10  | 3,104.34 | 10  | 2,742.91 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,577.55 | 1/4 | 4,317.51 | 1/4 | 4,044.60 | 1/4 | 3,753.88 | 1/4 | 3,456.91 | 1/4 | 3,096.81 | 1/4 | 2,735.38 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,571.50 | 1/2 | 4,312.02 | 1/2 | 4,038.72 | 1/2 | 3,747.73 | 1/2 | 3,449.74 | 1/2 | 3,089.28 | 1/2 | 2,727.85 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,565.44 | 3/4 | 4,306.53 | 3/4 | 4,032.84 | 3/4 | 3,741.59 | 3/4 | 3,442.57 | 3/4 | 3,081.75 | 3/4 | 2,720.32 |
| 11  |       | 11  |       | 11  |       | 11  | 4,559.39 | 11  | 4,301.00 | 11  | 4,026.93 | 11  | 3,735.44 | 11  | 3,435.06 | 11  | 3,074.22 | 11  | 2,712.79 |
| 1/4 |       | 1/4 |       | 1/4 |       | 1/4 | 4,553.33 | 1/4 | 4,295.48 | 1/4 | 4,021.02 | 1/4 | 3,729.30 | 1/4 | 3,427.54 | 1/4 | 3,066.69 | 1/4 | 2,705.26 |
| 1/2 |       | 1/2 |       | 1/2 |       | 1/2 | 4,547.28 | 1/2 | 4,289.95 | 1/2 | 4,015.11 | 1/2 | 3,723.15 | 1/2 | 3,420.03 | 1/2 | 3,059.16 | 1/2 | 2,697.73 |
| 3/4 |       | 3/4 |       | 3/4 |       | 3/4 | 4,541.23 | 3/4 | 4,284.42 | 3/4 | 4,009.20 | 3/4 | 3,717.01 | 3/4 | 3,412.51 | 3/4 | 3,051.63 | 3/4 | 2,690.20 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.  
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.  
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.  
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED 12'-06" OFF CENTERLINE AND 39'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT  
& ANALYSIS, INC.  
 P.O. Box 2092  
 Pearland, Texas 77588  
<http://www.pmacorp.net>



# BARGE "KIRBY 29065"

## 3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-04 3/4"

| IN  | 10 FT.   | IN  | 11 FT.   | IN  | 12 FT.   | IN  | 13 FT.   | IN  | 14 FT. | IN  | 15 FT. | IN  | 16 FT. | IN  | 17 FT. | IN  | 18 FT. | IN  | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0   | 2,321.20 | 0   | 1,959.44 | 0   | 1,597.68 | 0   | 1,236.22 | 0   | 874.53 | 0   | 512.82 | 0   | 151.11 | 0   |        | 0   |        |     |        |
| 1/4 | 2,313.66 | 1/4 | 1,951.90 | 1/4 | 1,590.14 | 1/4 | 1,228.69 | 1/4 | 866.99 | 1/4 | 505.29 | 1/4 | 143.57 | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,306.13 | 1/2 | 1,944.36 | 1/2 | 1,582.61 | 1/2 | 1,221.16 | 1/2 | 859.46 | 1/2 | 497.75 | 1/2 | 136.03 | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,298.59 | 3/4 | 1,936.83 | 3/4 | 1,575.08 | 3/4 | 1,213.63 | 3/4 | 851.92 | 3/4 | 490.22 | 3/4 | 128.50 | 3/4 |        | 3/4 |        | 3/4 |        |
| 1   | 2,291.06 | 1   | 1,929.29 | 1   | 1,567.55 | 1   | 1,206.10 | 1   | 844.38 | 1   | 482.69 | 1   | 120.96 | 1   |        | 1   |        | 1   |        |
| 1/4 | 2,283.52 | 1/4 | 1,921.75 | 1/4 | 1,560.02 | 1/4 | 1,198.57 | 1/4 | 836.85 | 1/4 | 475.15 | 1/4 | 113.42 | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,275.98 | 1/2 | 1,914.22 | 1/2 | 1,552.49 | 1/2 | 1,191.04 | 1/2 | 829.31 | 1/2 | 467.62 | 1/2 | 105.89 | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,268.45 | 3/4 | 1,906.68 | 3/4 | 1,544.96 | 3/4 | 1,183.51 | 3/4 | 821.77 | 3/4 | 460.08 | 3/4 | 98.35  | 3/4 |        | 3/4 |        | 3/4 |        |
| 2   | 2,260.91 | 2   | 1,899.14 | 2   | 1,537.43 | 2   | 1,175.98 | 2   | 814.24 | 2   | 452.55 | 2   | 90.81  | 2   |        | 2   |        | 2   |        |
| 1/4 | 2,253.37 | 1/4 | 1,891.61 | 1/4 | 1,529.90 | 1/4 | 1,168.45 | 1/4 | 806.70 | 1/4 | 445.02 | 1/4 | 83.28  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,245.84 | 1/2 | 1,884.07 | 1/2 | 1,522.37 | 1/2 | 1,160.92 | 1/2 | 799.16 | 1/2 | 437.48 | 1/2 | 75.74  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,238.30 | 3/4 | 1,876.53 | 3/4 | 1,514.84 | 3/4 | 1,153.38 | 3/4 | 791.63 | 3/4 | 429.95 | 3/4 | 68.20  | 3/4 |        | 3/4 |        | 3/4 |        |
| 3   | 2,230.76 | 3   | 1,869.00 | 3   | 1,507.31 | 3   | 1,145.85 | 3   | 784.09 | 3   | 422.42 | 3   | 61.37  | 3   |        | 3   |        | 3   |        |
| 1/4 | 2,223.22 | 1/4 | 1,861.46 | 1/4 | 1,499.78 | 1/4 | 1,138.31 | 1/4 | 776.55 | 1/4 | 414.88 | 1/4 | 54.54  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,215.69 | 1/2 | 1,853.92 | 1/2 | 1,492.25 | 1/2 | 1,130.78 | 1/2 | 769.01 | 1/2 | 407.35 | 1/2 | 47.71  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,208.15 | 3/4 | 1,846.38 | 3/4 | 1,484.72 | 3/4 | 1,123.24 | 3/4 | 761.48 | 3/4 | 399.82 | 3/4 | 40.88  | 3/4 |        | 3/4 |        | 3/4 |        |
| 4   | 2,200.61 | 4   | 1,838.85 | 4   | 1,477.19 | 4   | 1,115.71 | 4   | 753.94 | 4   | 392.28 | 4   | 35.70  | 4   |        | 4   |        | 4   |        |
| 1/4 | 2,193.08 | 1/4 | 1,831.31 | 1/4 | 1,469.66 | 1/4 | 1,108.17 | 1/4 | 746.40 | 1/4 | 384.75 | 1/4 | 30.52  | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,185.54 | 1/2 | 1,823.77 | 1/2 | 1,462.13 | 1/2 | 1,100.63 | 1/2 | 738.87 | 1/2 | 377.21 | 1/2 | 25.34  | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,178.00 | 3/4 | 1,816.24 | 3/4 | 1,454.60 | 3/4 | 1,093.10 | 3/4 | 731.33 | 3/4 | 369.68 | 3/4 | 20.16  | 3/4 |        | 3/4 |        | 3/4 |        |
| 5   | 2,170.47 | 5   | 1,808.70 | 5   | 1,447.07 | 5   | 1,085.56 | 5   | 723.79 | 5   | 362.14 | 5   |        | 5   |        | 5   |        | 5   |        |
| 1/4 | 2,162.93 | 1/4 | 1,801.16 | 1/4 | 1,439.54 | 1/4 | 1,078.02 | 1/4 | 716.26 | 1/4 | 354.60 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,155.39 | 1/2 | 1,793.63 | 1/2 | 1,432.01 | 1/2 | 1,070.49 | 1/2 | 708.72 | 1/2 | 347.06 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,147.86 | 3/4 | 1,786.09 | 3/4 | 1,424.48 | 3/4 | 1,062.95 | 3/4 | 701.18 | 3/4 | 339.53 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 6   | 2,140.32 | 6   | 1,778.55 | 6   | 1,416.95 | 6   | 1,055.41 | 6   | 693.65 | 6   | 331.99 | 6   |        | 6   |        | 6   |        | 6   |        |
| 1/4 | 2,132.78 | 1/4 | 1,771.02 | 1/4 | 1,409.42 | 1/4 | 1,047.88 | 1/4 | 686.11 | 1/4 | 324.45 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,125.25 | 1/2 | 1,763.48 | 1/2 | 1,401.88 | 1/2 | 1,040.34 | 1/2 | 678.57 | 1/2 | 316.92 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,117.71 | 3/4 | 1,755.94 | 3/4 | 1,394.35 | 3/4 | 1,032.80 | 3/4 | 671.04 | 3/4 | 309.38 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 7   | 2,110.17 | 7   | 1,748.41 | 7   | 1,386.82 | 7   | 1,025.27 | 7   | 663.50 | 7   | 301.84 | 7   |        | 7   |        | 7   |        | 7   |        |
| 1/4 | 2,102.64 | 1/4 | 1,740.87 | 1/4 | 1,379.29 | 1/4 | 1,017.73 | 1/4 | 655.96 | 1/4 | 294.31 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,095.10 | 1/2 | 1,733.33 | 1/2 | 1,371.76 | 1/2 | 1,010.19 | 1/2 | 648.43 | 1/2 | 286.77 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,087.56 | 3/4 | 1,725.80 | 3/4 | 1,364.23 | 3/4 | 1,002.66 | 3/4 | 640.89 | 3/4 | 279.23 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 8   | 2,080.03 | 8   | 1,718.26 | 8   | 1,356.70 | 8   | 995.12   | 8   | 633.36 | 8   | 271.70 | 8   |        | 8   |        | 8   |        | 8   |        |
| 1/4 | 2,072.49 | 1/4 | 1,710.72 | 1/4 | 1,349.17 | 1/4 | 987.58   | 1/4 | 625.82 | 1/4 | 264.16 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,064.95 | 1/2 | 1,703.19 | 1/2 | 1,341.64 | 1/2 | 980.05   | 1/2 | 618.29 | 1/2 | 256.62 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,057.42 | 3/4 | 1,695.65 | 3/4 | 1,334.11 | 3/4 | 972.51   | 3/4 | 610.75 | 3/4 | 249.09 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 9   | 2,049.88 | 9   | 1,688.11 | 9   | 1,326.58 | 9   | 964.97   | 9   | 603.22 | 9   | 241.55 | 9   |        | 9   |        | 9   |        | 9   |        |
| 1/4 | 2,042.34 | 1/4 | 1,680.58 | 1/4 | 1,319.05 | 1/4 | 957.43   | 1/4 | 595.69 | 1/4 | 234.01 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,034.80 | 1/2 | 1,673.04 | 1/2 | 1,311.52 | 1/2 | 949.90   | 1/2 | 588.15 | 1/2 | 226.48 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 2,027.27 | 3/4 | 1,665.50 | 3/4 | 1,303.99 | 3/4 | 942.36   | 3/4 | 580.62 | 3/4 | 218.94 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 10  | 2,019.73 | 10  | 1,657.96 | 10  | 1,296.46 | 10  | 934.82   | 10  | 573.09 | 10  | 211.40 | 10  |        | 10  |        | 10  |        | 10  |        |
| 1/4 | 2,012.19 | 1/4 | 1,650.43 | 1/4 | 1,288.93 | 1/4 | 927.29   | 1/4 | 565.55 | 1/4 | 203.87 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 2,004.66 | 1/2 | 1,642.89 | 1/2 | 1,281.40 | 1/2 | 919.75   | 1/2 | 558.02 | 1/2 | 196.33 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,997.12 | 3/4 | 1,635.35 | 3/4 | 1,273.87 | 3/4 | 912.21   | 3/4 | 550.49 | 3/4 | 188.79 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |
| 11  | 1,989.58 | 11  | 1,627.82 | 11  | 1,266.34 | 11  | 904.68   | 11  | 542.95 | 11  | 181.26 | 11  |        | 11  |        | 11  |        | 11  |        |
| 1/4 | 1,982.05 | 1/4 | 1,620.28 | 1/4 | 1,258.81 | 1/4 | 897.14   | 1/4 | 535.42 | 1/4 | 173.72 | 1/4 |        | 1/4 |        | 1/4 |        | 1/4 |        |
| 1/2 | 1,974.51 | 1/2 | 1,612.74 | 1/2 | 1,251.28 | 1/2 | 889.60   | 1/2 | 527.89 | 1/2 | 166.18 | 1/2 |        | 1/2 |        | 1/2 |        | 1/2 |        |
| 3/4 | 1,966.97 | 3/4 | 1,605.21 | 3/4 | 1,243.75 | 3/4 | 882.07   | 3/4 | 520.35 | 3/4 | 158.64 | 3/4 |        | 3/4 |        | 3/4 |        | 3/4 |        |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 08/01/2017 SW  
CALCULATED: 08/01/2017 CL  
PRINTED: 08/02/2017 SW

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2017

PRECISION MEASUREMENT  
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