



BARGE "KIRBY 10116"

ULLAGE TRIM TABLE

| | 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 CENTER | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-4/8 | - 00-4/8 | 00-5/8 | - 00-5/8 | 00-3/4 | - 00-3/4 | 00-7/8 | - 00-7/8 |
| 2 CENTER | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-1/4 | - 00-1/4 | 00-3/8 | - 00-3/8 | 00-1/2 | - 00-1/2 | 00-5/8 | - 00-5/8 |
| 3 CENTER | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-3/8 | - 00-3/8 | 00-1/2 | - 00-1/2 | 00-1/2 | - 00-1/2 |

(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 CENTER IS - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

March 28, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10116"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

| 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 | 0 | 0 | 0 | 3,767.05 | 0 | 3,546.07 | 0 | 3,292.99 | 0 | 3,039.91 | 0 | 2,779.38 | 0 | 2,483.55 | 0 | 2,187.04 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,766.02 | 1/4 | 3,540.80 | 1/4 | 3,287.72 | 1/4 | 3,034.64 | 1/4 | 2,773.22 | 1/4 | 2,477.37 | 1/4 | 2,180.87 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,764.99 | 1/2 | 3,535.52 | 1/2 | 3,282.44 | 1/2 | 3,029.36 | 1/2 | 2,767.06 | 1/2 | 2,471.19 | 1/2 | 2,174.69 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,763.95 | 3/4 | 3,530.25 | 3/4 | 3,277.17 | 3/4 | 3,024.09 | 3/4 | 2,760.90 | 3/4 | 2,465.01 | 3/4 | 2,168.51 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,762.92 | 1 | 3,524.98 | 1 | 3,271.90 | 1 | 3,018.82 | 1 | 2,754.74 | 1 | 2,458.84 | 1 | 2,162.34 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,759.82 | 1/4 | 3,519.71 | 1/4 | 3,266.63 | 1/4 | 3,013.55 | 1/4 | 2,748.58 | 1/4 | 2,452.66 | 1/4 | 2,156.16 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,756.72 | 1/2 | 3,514.43 | 1/2 | 3,261.35 | 1/2 | 3,008.27 | 1/2 | 2,742.43 | 1/2 | 2,446.48 | 1/2 | 2,149.98 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,753.62 | 3/4 | 3,509.16 | 3/4 | 3,256.08 | 3/4 | 3,003.00 | 3/4 | 2,736.27 | 3/4 | 2,440.31 | 3/4 | 2,143.80 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3,750.51 | 2 | 3,503.89 | 2 | 3,250.81 | 2 | 2,997.73 | 2 | 2,730.11 | 2 | 2,434.13 | 2 | 2,137.63 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,746.36 | 1/4 | 3,498.62 | 1/4 | 3,245.54 | 1/4 | 2,992.46 | 1/4 | 2,723.95 | 1/4 | 2,427.95 | 1/4 | 2,131.45 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,742.21 | 1/2 | 3,493.34 | 1/2 | 3,240.26 | 1/2 | 2,987.18 | 1/2 | 2,717.79 | 1/2 | 2,421.77 | 1/2 | 2,125.27 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,738.06 | 3/4 | 3,488.07 | 3/4 | 3,234.99 | 3/4 | 2,981.91 | 3/4 | 2,711.63 | 3/4 | 2,415.60 | 3/4 | 2,119.10 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3,733.91 | 3 | 3,482.80 | 3 | 3,229.72 | 3 | 2,976.64 | 3 | 2,705.47 | 3 | 2,409.42 | 3 | 2,112.92 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,728.77 | 1/4 | 3,477.53 | 1/4 | 3,224.45 | 1/4 | 2,971.37 | 1/4 | 2,699.32 | 1/4 | 2,403.24 | 1/4 | 2,106.74 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,723.63 | 1/2 | 3,472.25 | 1/2 | 3,219.17 | 1/2 | 2,966.09 | 1/2 | 2,693.16 | 1/2 | 2,397.07 | 1/2 | 2,100.56 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,718.49 | 3/4 | 3,466.98 | 3/4 | 3,213.90 | 3/4 | 2,960.82 | 3/4 | 2,687.00 | 3/4 | 2,390.89 | 3/4 | 2,094.39 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3,713.35 | 4 | 3,461.71 | 4 | 3,208.63 | 4 | 2,955.55 | 4 | 2,680.84 | 4 | 2,384.71 | 4 | 2,088.21 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,708.18 | 1/4 | 3,456.44 | 1/4 | 3,203.36 | 1/4 | 2,950.28 | 1/4 | 2,674.68 | 1/4 | 2,378.53 | 1/4 | 2,082.03 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,703.01 | 1/2 | 3,451.16 | 1/2 | 3,198.08 | 1/2 | 2,945.00 | 1/2 | 2,668.52 | 1/2 | 2,372.36 | 1/2 | 2,075.86 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,697.83 | 3/4 | 3,445.89 | 3/4 | 3,192.81 | 3/4 | 2,939.73 | 3/4 | 2,662.36 | 3/4 | 2,366.18 | 3/4 | 2,069.68 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3,692.66 | 5 | 3,440.62 | 5 | 3,187.54 | 5 | 2,934.46 | 5 | 2,656.21 | 5 | 2,360.00 | 5 | 2,063.50 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,687.47 | 1/4 | 3,435.35 | 1/4 | 3,182.27 | 1/4 | 2,929.19 | 1/4 | 2,650.05 | 1/4 | 2,353.83 | 1/4 | 2,057.33 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,682.28 | 1/2 | 3,430.07 | 1/2 | 3,176.99 | 1/2 | 2,923.91 | 1/2 | 2,643.89 | 1/2 | 2,347.65 | 1/2 | 2,051.15 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,677.10 | 3/4 | 3,424.80 | 3/4 | 3,171.72 | 3/4 | 2,918.64 | 3/4 | 2,637.73 | 3/4 | 2,341.47 | 3/4 | 2,044.97 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3,671.91 | 6 | 3,419.53 | 6 | 3,166.45 | 6 | 2,913.37 | 6 | 2,631.57 | 6 | 2,335.29 | 6 | 2,038.79 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,666.72 | 1/4 | 3,414.26 | 1/4 | 3,161.18 | 1/4 | 2,908.10 | 1/4 | 2,625.41 | 1/4 | 2,329.12 | 1/4 | 2,032.62 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,661.54 | 1/2 | 3,408.98 | 1/2 | 3,155.90 | 1/2 | 2,902.82 | 1/2 | 2,619.26 | 1/2 | 2,322.94 | 1/2 | 2,026.44 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,656.35 | 3/4 | 3,403.71 | 3/4 | 3,150.63 | 3/4 | 2,897.55 | 3/4 | 2,613.10 | 3/4 | 2,316.76 | 3/4 | 2,020.26 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3,651.17 | 7 | 3,398.44 | 7 | 3,145.36 | 7 | 2,892.28 | 7 | 2,606.94 | 7 | 2,310.59 | 7 | 2,014.09 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,645.98 | 1/4 | 3,393.17 | 1/4 | 3,140.09 | 1/4 | 2,887.01 | 1/4 | 2,600.78 | 1/4 | 2,304.41 | 1/4 | 2,007.91 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,640.80 | 1/2 | 3,387.89 | 1/2 | 3,134.81 | 1/2 | 2,881.73 | 1/2 | 2,594.62 | 1/2 | 2,298.23 | 1/2 | 2,001.73 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,635.61 | 3/4 | 3,382.62 | 3/4 | 3,129.54 | 3/4 | 2,876.46 | 3/4 | 2,588.46 | 3/4 | 2,292.05 | 3/4 | 1,995.55 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 3,630.43 | 8 | 3,377.35 | 8 | 3,124.27 | 8 | 2,871.19 | 8 | 2,582.30 | 8 | 2,285.88 | 8 | 1,989.38 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,625.16 | 1/4 | 3,372.08 | 1/4 | 3,119.00 | 1/4 | 2,865.89 | 1/4 | 2,576.15 | 1/4 | 2,279.70 | 1/4 | 1,983.20 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,619.88 | 1/2 | 3,366.80 | 1/2 | 3,113.72 | 1/2 | 2,860.59 | 1/2 | 2,569.99 | 1/2 | 2,273.52 | 1/2 | 1,977.02 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,614.61 | 3/4 | 3,361.53 | 3/4 | 3,108.45 | 3/4 | 2,855.30 | 3/4 | 2,563.83 | 3/4 | 2,267.35 | 3/4 | 1,970.85 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 3,609.34 | 9 | 3,356.26 | 9 | 3,103.18 | 9 | 2,850.00 | 9 | 2,557.67 | 9 | 2,261.17 | 9 | 1,964.67 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,604.07 | 1/4 | 3,350.99 | 1/4 | 3,097.91 | 1/4 | 2,844.70 | 1/4 | 2,551.49 | 1/4 | 2,254.99 | 1/4 | 1,958.49 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,598.79 | 1/2 | 3,345.71 | 1/2 | 3,092.63 | 1/2 | 2,839.40 | 1/2 | 2,545.32 | 1/2 | 2,248.82 | 1/2 | 1,952.31 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,593.52 | 3/4 | 3,340.44 | 3/4 | 3,087.36 | 3/4 | 2,834.11 | 3/4 | 2,539.14 | 3/4 | 2,242.64 | 3/4 | 1,946.14 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 3,588.25 | 10 | 3,335.17 | 10 | 3,082.09 | 10 | 2,828.81 | 10 | 2,532.96 | 10 | 2,236.46 | 10 | 1,939.96 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,582.98 | 1/4 | 3,329.90 | 1/4 | 3,076.82 | 1/4 | 2,822.61 | 1/4 | 2,526.78 | 1/4 | 2,230.28 | 1/4 | 1,933.78 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,577.70 | 1/2 | 3,324.62 | 1/2 | 3,071.54 | 1/2 | 2,816.41 | 1/2 | 2,520.61 | 1/2 | 2,224.11 | 1/2 | 1,927.61 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,572.43 | 3/4 | 3,319.35 | 3/4 | 3,066.27 | 3/4 | 2,810.21 | 3/4 | 2,514.43 | 3/4 | 2,217.93 | 3/4 | 1,921.43 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 3,567.16 | 11 | 3,314.08 | 11 | 3,061.00 | 11 | 2,804.01 | 11 | 2,508.25 | 11 | 2,211.75 | 11 | 1,915.25 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,561.89 | 1/4 | 3,308.81 | 1/4 | 3,055.73 | 1/4 | 2,797.85 | 1/4 | 2,502.08 | 1/4 | 2,205.58 | 1/4 | 1,909.07 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,556.61 | 1/2 | 3,303.53 | 1/2 | 3,050.45 | 1/2 | 2,791.69 | 1/2 | 2,495.90 | 1/2 | 2,199.40 | 1/2 | 1,902.90 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,551.34 | 3/4 | 3,298.26 | 3/4 | 3,045.18 | 3/4 | 2,785.53 | 3/4 | 2,489.72 | 3/4 | 2,193.22 | 3/4 | 1,896.72 |

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 ON CENTERLINE AND 32'-00" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10116"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

| 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 | 1,890.54 | 0 | 1,593.81 | 0 | 1,296.89 | 0 | 999.98 | 0 | 709.10 | 0 | 412.06 | 0 | 114.95 | 0 | | 0 | | 0 | |
| 1/4 | 1,884.37 | 1/4 | 1,587.62 | 1/4 | 1,290.71 | 1/4 | 993.79 | 1/4 | 702.93 | 1/4 | 405.87 | 1/4 | 108.79 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,878.19 | 1/2 | 1,581.44 | 1/2 | 1,284.52 | 1/2 | 987.61 | 1/2 | 696.76 | 1/2 | 399.68 | 1/2 | 102.62 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,872.01 | 3/4 | 1,575.25 | 3/4 | 1,278.34 | 3/4 | 981.42 | 3/4 | 690.58 | 3/4 | 393.49 | 3/4 | 96.46 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 1,865.84 | 1 | 1,569.06 | 1 | 1,272.15 | 1 | 975.24 | 1 | 684.41 | 1 | 387.30 | 1 | 90.30 | 1 | | 1 | | 1 | |
| 1/4 | 1,859.66 | 1/4 | 1,562.88 | 1/4 | 1,265.97 | 1/4 | 969.11 | 1/4 | 678.22 | 1/4 | 381.11 | 1/4 | 84.17 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,853.48 | 1/2 | 1,556.69 | 1/2 | 1,259.78 | 1/2 | 962.99 | 1/2 | 672.03 | 1/2 | 374.92 | 1/2 | 78.04 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,847.30 | 3/4 | 1,550.51 | 3/4 | 1,253.59 | 3/4 | 956.87 | 3/4 | 665.85 | 3/4 | 368.73 | 3/4 | 71.91 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 1,841.13 | 2 | 1,544.32 | 2 | 1,247.41 | 2 | 950.75 | 2 | 659.66 | 2 | 362.54 | 2 | 65.78 | 2 | | 2 | | 2 | |
| 1/4 | 1,834.95 | 1/4 | 1,538.14 | 1/4 | 1,241.22 | 1/4 | 944.69 | 1/4 | 653.47 | 1/4 | 356.35 | 1/4 | 59.71 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,828.77 | 1/2 | 1,531.95 | 1/2 | 1,235.04 | 1/2 | 938.63 | 1/2 | 647.28 | 1/2 | 350.16 | 1/2 | 53.63 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,822.60 | 3/4 | 1,525.76 | 3/4 | 1,228.85 | 3/4 | 932.57 | 3/4 | 641.09 | 3/4 | 343.97 | 3/4 | 47.56 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 1,816.42 | 3 | 1,519.58 | 3 | 1,222.67 | 3 | 926.51 | 3 | 634.90 | 3 | 337.78 | 3 | 41.48 | 3 | | 3 | | 3 | |
| 1/4 | 1,810.23 | 1/4 | 1,513.39 | 1/4 | 1,216.48 | 1/4 | 920.45 | 1/4 | 628.71 | 1/4 | 331.59 | 1/4 | 36.33 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,804.05 | 1/2 | 1,507.21 | 1/2 | 1,210.29 | 1/2 | 914.39 | 1/2 | 622.52 | 1/2 | 325.40 | 1/2 | 31.17 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,797.86 | 3/4 | 1,501.02 | 3/4 | 1,204.11 | 3/4 | 908.33 | 3/4 | 616.33 | 3/4 | 319.21 | 3/4 | 26.01 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 1,791.68 | 4 | 1,494.84 | 4 | 1,197.92 | 4 | 902.27 | 4 | 610.14 | 4 | 313.02 | 4 | 20.85 | 4 | | 4 | | 4 | |
| 1/4 | 1,785.49 | 1/4 | 1,488.65 | 1/4 | 1,191.74 | 1/4 | 896.23 | 1/4 | 603.95 | 1/4 | 306.83 | 1/4 | 17.75 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,779.31 | 1/2 | 1,482.46 | 1/2 | 1,185.55 | 1/2 | 890.19 | 1/2 | 597.76 | 1/2 | 300.64 | 1/2 | 14.65 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,773.12 | 3/4 | 1,476.28 | 3/4 | 1,179.37 | 3/4 | 884.14 | 3/4 | 591.57 | 3/4 | 294.45 | 3/4 | 11.55 | 3/4 | | 3/4 | | 3/4 | |
| 5 | 1,766.93 | 5 | 1,470.09 | 5 | 1,173.18 | 5 | 878.10 | 5 | 585.38 | 5 | 288.26 | 5 | 8.45 | 5 | | 5 | | 5 | |
| 1/4 | 1,760.75 | 1/4 | 1,463.91 | 1/4 | 1,166.99 | 1/4 | 872.07 | 1/4 | 579.19 | 1/4 | 282.07 | 1/4 | 7.41 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,754.56 | 1/2 | 1,457.72 | 1/2 | 1,160.81 | 1/2 | 866.05 | 1/2 | 573.00 | 1/2 | 275.88 | 1/2 | 6.38 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,748.38 | 3/4 | 1,451.54 | 3/4 | 1,154.62 | 3/4 | 860.02 | 3/4 | 566.81 | 3/4 | 269.69 | 3/4 | 5.35 | 3/4 | | 3/4 | | 3/4 | |
| 6 | 1,742.19 | 6 | 1,445.35 | 6 | 1,148.44 | 6 | 853.99 | 6 | 560.62 | 6 | 263.50 | 6 | 4.31 | 6 | | 6 | | 6 | |
| 1/4 | 1,736.01 | 1/4 | 1,439.16 | 1/4 | 1,142.25 | 1/4 | 847.97 | 1/4 | 554.43 | 1/4 | 257.31 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,729.82 | 1/2 | 1,432.98 | 1/2 | 1,136.07 | 1/2 | 841.94 | 1/2 | 548.24 | 1/2 | 251.12 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,723.64 | 3/4 | 1,426.79 | 3/4 | 1,129.88 | 3/4 | 835.91 | 3/4 | 542.05 | 3/4 | 244.93 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 1,717.46 | 7 | 1,420.61 | 7 | 1,123.69 | 7 | 829.89 | 7 | 535.86 | 7 | 238.74 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 1,711.27 | 1/4 | 1,414.42 | 1/4 | 1,117.51 | 1/4 | 823.86 | 1/4 | 529.67 | 1/4 | 232.55 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,705.09 | 1/2 | 1,408.24 | 1/2 | 1,111.32 | 1/2 | 817.83 | 1/2 | 523.48 | 1/2 | 226.36 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,698.91 | 3/4 | 1,402.05 | 3/4 | 1,105.14 | 3/4 | 811.81 | 3/4 | 517.29 | 3/4 | 220.17 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 1,692.73 | 8 | 1,395.87 | 8 | 1,098.95 | 8 | 805.78 | 8 | 511.10 | 8 | 213.98 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 1,686.54 | 1/4 | 1,389.68 | 1/4 | 1,092.77 | 1/4 | 799.75 | 1/4 | 504.91 | 1/4 | 207.79 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,680.36 | 1/2 | 1,383.49 | 1/2 | 1,086.58 | 1/2 | 793.73 | 1/2 | 498.72 | 1/2 | 201.60 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,674.18 | 3/4 | 1,377.31 | 3/4 | 1,080.39 | 3/4 | 787.70 | 3/4 | 492.53 | 3/4 | 195.41 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 1,668.00 | 9 | 1,371.12 | 9 | 1,074.21 | 9 | 781.67 | 9 | 486.34 | 9 | 189.22 | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 1,661.81 | 1/4 | 1,364.94 | 1/4 | 1,068.02 | 1/4 | 775.65 | 1/4 | 480.15 | 1/4 | 183.03 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,655.63 | 1/2 | 1,358.75 | 1/2 | 1,061.84 | 1/2 | 769.62 | 1/2 | 473.96 | 1/2 | 176.84 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,649.45 | 3/4 | 1,352.57 | 3/4 | 1,055.65 | 3/4 | 763.59 | 3/4 | 467.77 | 3/4 | 170.65 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,643.27 | 10 | 1,346.38 | 10 | 1,049.47 | 10 | 757.57 | 10 | 461.58 | 10 | 164.46 | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 1,637.08 | 1/4 | 1,340.19 | 1/4 | 1,043.28 | 1/4 | 751.54 | 1/4 | 455.39 | 1/4 | 158.27 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,630.90 | 1/2 | 1,334.01 | 1/2 | 1,037.09 | 1/2 | 745.51 | 1/2 | 449.20 | 1/2 | 152.07 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,624.72 | 3/4 | 1,327.82 | 3/4 | 1,030.91 | 3/4 | 739.49 | 3/4 | 443.01 | 3/4 | 145.88 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,618.54 | 11 | 1,321.64 | 11 | 1,024.72 | 11 | 733.46 | 11 | 436.82 | 11 | 139.68 | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 1,612.35 | 1/4 | 1,315.45 | 1/4 | 1,018.54 | 1/4 | 727.37 | 1/4 | 430.63 | 1/4 | 133.50 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,606.17 | 1/2 | 1,309.27 | 1/2 | 1,012.35 | 1/2 | 721.28 | 1/2 | 424.44 | 1/2 | 127.31 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,599.99 | 3/4 | 1,303.08 | 3/4 | 1,006.17 | 3/4 | 715.19 | 3/4 | 418.25 | 3/4 | 121.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2014 SW
CALCULATED: 03/28/2014 CL
PRINTED: 03/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2014

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



BARGE "KIRBY 10116"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-------|--|-------|--|-------|--|-------|--|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-----|----------|
| IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | | |
| 0 | | 0 | | 0 | | 0 | | 0 | 3,256.25 | 0 | 2,994.66 | 0 | 2,733.08 | 0 | 2,471.08 | 0 | 2,208.10 | 0 | 1,945.11 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,250.80 | 1/4 | 2,989.21 | 1/4 | 2,727.63 | 1/4 | 2,465.60 | 1/4 | 2,202.62 | 1/4 | 1,939.63 | | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,471.75 | 1/2 | 3,245.35 | 1/2 | 2,983.76 | 1/2 | 2,722.18 | 1/2 | 2,460.12 | 1/2 | 2,197.14 | 1/2 | 1,934.15 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,470.84 | 3/4 | 3,239.90 | 3/4 | 2,978.31 | 3/4 | 2,716.73 | 3/4 | 2,454.65 | 3/4 | 2,191.66 | 3/4 | 1,928.67 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,469.93 | 1 | 3,234.45 | 1 | 2,972.86 | 1 | 2,711.28 | 1 | 2,449.17 | 1 | 2,186.18 | 1 | 1,923.19 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,469.01 | 1/4 | 3,229.00 | 1/4 | 2,967.41 | 1/4 | 2,705.83 | 1/4 | 2,443.69 | 1/4 | 2,180.70 | 1/4 | 1,917.71 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,468.10 | 1/2 | 3,223.55 | 1/2 | 2,961.96 | 1/2 | 2,700.38 | 1/2 | 2,438.21 | 1/2 | 2,175.22 | 1/2 | 1,912.23 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,465.36 | 3/4 | 3,218.10 | 3/4 | 2,956.51 | 3/4 | 2,694.93 | 3/4 | 2,432.73 | 3/4 | 2,169.74 | 3/4 | 1,906.76 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,462.62 | 2 | 3,212.65 | 2 | 2,951.06 | 2 | 2,689.48 | 2 | 2,427.25 | 2 | 2,164.26 | 2 | 1,901.28 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,459.88 | 1/4 | 3,207.20 | 1/4 | 2,945.62 | 1/4 | 2,684.03 | 1/4 | 2,421.77 | 1/4 | 2,158.79 | 1/4 | 1,895.80 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,457.14 | 1/2 | 3,201.75 | 1/2 | 2,940.17 | 1/2 | 2,678.58 | 1/2 | 2,416.29 | 1/2 | 2,153.31 | 1/2 | 1,890.32 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,452.70 | 3/4 | 3,196.30 | 3/4 | 2,934.72 | 3/4 | 2,673.13 | 3/4 | 2,410.81 | 3/4 | 2,147.83 | 3/4 | 1,884.84 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,448.26 | 3 | 3,190.85 | 3 | 2,929.27 | 3 | 2,667.68 | 3 | 2,405.34 | 3 | 2,142.35 | 3 | 1,879.36 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,443.82 | 1/4 | 3,185.40 | 1/4 | 2,923.82 | 1/4 | 2,662.23 | 1/4 | 2,399.86 | 1/4 | 2,136.87 | 1/4 | 1,873.88 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,439.38 | 1/2 | 3,179.95 | 1/2 | 2,918.37 | 1/2 | 2,656.78 | 1/2 | 2,394.38 | 1/2 | 2,131.39 | 1/2 | 1,868.40 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,434.07 | 3/4 | 3,174.50 | 3/4 | 2,912.92 | 3/4 | 2,651.33 | 3/4 | 2,388.90 | 3/4 | 2,125.91 | 3/4 | 1,862.92 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,428.76 | 4 | 3,169.05 | 4 | 2,907.47 | 4 | 2,645.88 | 4 | 2,383.42 | 4 | 2,120.43 | 4 | 1,857.45 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,423.45 | 1/4 | 3,163.60 | 1/4 | 2,902.02 | 1/4 | 2,640.43 | 1/4 | 2,377.94 | 1/4 | 2,114.95 | 1/4 | 1,851.97 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,418.14 | 1/2 | 3,158.15 | 1/2 | 2,896.57 | 1/2 | 2,634.98 | 1/2 | 2,372.46 | 1/2 | 2,109.48 | 1/2 | 1,846.49 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,412.80 | 3/4 | 3,152.70 | 3/4 | 2,891.12 | 3/4 | 2,629.53 | 3/4 | 2,366.98 | 3/4 | 2,104.00 | 3/4 | 1,841.01 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,407.45 | 5 | 3,147.25 | 5 | 2,885.67 | 5 | 2,624.08 | 5 | 2,361.50 | 5 | 2,098.52 | 5 | 1,835.53 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,402.11 | 1/4 | 3,141.80 | 1/4 | 2,880.22 | 1/4 | 2,618.63 | 1/4 | 2,356.03 | 1/4 | 2,093.04 | 1/4 | 1,830.05 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,396.77 | 1/2 | 3,136.35 | 1/2 | 2,874.77 | 1/2 | 2,613.18 | 1/2 | 2,350.55 | 1/2 | 2,087.56 | 1/2 | 1,824.57 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,391.42 | 3/4 | 3,130.90 | 3/4 | 2,869.32 | 3/4 | 2,607.73 | 3/4 | 2,345.07 | 3/4 | 2,082.08 | 3/4 | 1,819.09 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,386.06 | 6 | 3,125.46 | 6 | 2,863.87 | 6 | 2,602.28 | 6 | 2,339.59 | 6 | 2,076.60 | 6 | 1,813.61 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,380.71 | 1/4 | 3,120.01 | 1/4 | 2,858.42 | 1/4 | 2,596.83 | 1/4 | 2,334.11 | 1/4 | 2,071.12 | 1/4 | 1,808.14 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,375.36 | 1/2 | 3,114.56 | 1/2 | 2,852.97 | 1/2 | 2,591.38 | 1/2 | 2,328.63 | 1/2 | 2,065.64 | 1/2 | 1,802.66 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,370.00 | 3/4 | 3,109.11 | 3/4 | 2,847.52 | 3/4 | 2,585.93 | 3/4 | 2,323.15 | 3/4 | 2,060.16 | 3/4 | 1,797.18 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,364.65 | 7 | 3,103.66 | 7 | 2,842.07 | 7 | 2,580.49 | 7 | 2,317.67 | 7 | 2,054.69 | 7 | 1,791.70 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,359.30 | 1/4 | 3,098.21 | 1/4 | 2,836.62 | 1/4 | 2,575.04 | 1/4 | 2,312.19 | 1/4 | 2,049.21 | 1/4 | 1,786.22 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,353.95 | 1/2 | 3,092.76 | 1/2 | 2,831.17 | 1/2 | 2,569.59 | 1/2 | 2,306.72 | 1/2 | 2,043.73 | 1/2 | 1,780.74 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,348.60 | 3/4 | 3,087.31 | 3/4 | 2,825.72 | 3/4 | 2,564.14 | 3/4 | 2,301.24 | 3/4 | 2,038.25 | 3/4 | 1,775.26 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,343.25 | 8 | 3,081.86 | 8 | 2,820.27 | 8 | 2,558.69 | 8 | 2,295.76 | 8 | 2,032.77 | 8 | 1,769.78 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,337.90 | 1/4 | 3,076.41 | 1/4 | 2,814.82 | 1/4 | 2,553.24 | 1/4 | 2,290.28 | 1/4 | 2,027.29 | 1/4 | 1,764.30 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,332.54 | 1/2 | 3,070.96 | 1/2 | 2,809.37 | 1/2 | 2,547.79 | 1/2 | 2,284.80 | 1/2 | 2,021.81 | 1/2 | 1,758.83 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,327.09 | 3/4 | 3,065.51 | 3/4 | 2,803.92 | 3/4 | 2,542.31 | 3/4 | 2,279.32 | 3/4 | 2,016.33 | 3/4 | 1,753.35 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,321.64 | 9 | 3,060.06 | 9 | 2,798.47 | 9 | 2,536.83 | 9 | 2,273.84 | 9 | 2,010.85 | 9 | 1,747.87 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,316.19 | 1/4 | 3,054.61 | 1/4 | 2,793.02 | 1/4 | 2,531.35 | 1/4 | 2,268.36 | 1/4 | 2,005.38 | 1/4 | 1,742.39 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,310.75 | 1/2 | 3,049.16 | 1/2 | 2,787.57 | 1/2 | 2,525.87 | 1/2 | 2,262.88 | 1/2 | 1,999.90 | 1/2 | 1,736.91 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,305.30 | 3/4 | 3,043.71 | 3/4 | 2,782.12 | 3/4 | 2,520.39 | 3/4 | 2,257.41 | 3/4 | 1,994.42 | 3/4 | 1,731.43 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,299.85 | 10 | 3,038.26 | 10 | 2,776.67 | 10 | 2,514.91 | 10 | 2,251.93 | 10 | 1,988.94 | 10 | 1,725.95 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,294.40 | 1/4 | 3,032.81 | 1/4 | 2,771.22 | 1/4 | 2,509.43 | 1/4 | 2,246.45 | 1/4 | 1,983.46 | 1/4 | 1,720.47 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,288.95 | 1/2 | 3,027.36 | 1/2 | 2,765.78 | 1/2 | 2,503.96 | 1/2 | 2,240.97 | 1/2 | 1,977.98 | 1/2 | 1,714.99 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,283.50 | 3/4 | 3,021.91 | 3/4 | 2,760.33 | 3/4 | 2,498.48 | 3/4 | 2,235.49 | 3/4 | 1,972.50 | 3/4 | 1,709.52 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,278.05 | 11 | 3,016.46 | 11 | 2,754.88 | 11 | 2,493.00 | 11 | 2,230.01 | 11 | 1,967.02 | 11 | 1,704.04 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,272.60 | 1/4 | 3,011.01 | 1/4 | 2,749.43 | 1/4 | 2,487.52 | 1/4 | 2,224.53 | 1/4 | 1,961.54 | 1/4 | 1,698.56 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,267.15 | 1/2 | 3,005.56 | 1/2 | 2,743.98 | 1/2 | 2,482.04 | 1/2 | 2,219.05 | 1/2 | 1,956.07 | 1/2 | 1,693.08 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,261.70 | 3/4 | 3,000.11 | 3/4 | 2,738.53 | 3/4 | 2,476.56 | 3/4 | 2,213.57 | 3/4 | 1,950.59 | 3/4 | 1,687.60 |

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 ON CENTERLINE AND 27'-09" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10116"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

| 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 | 1,682.12 | 0 | 1,419.13 | 0 | 1,155.99 | 0 | 894.52 | 0 | 635.53 | 0 | 372.48 | 0 | 109.41 | 0 | | 0 | | 0 | |
| 1/4 | 1,676.64 | 1/4 | 1,413.65 | 1/4 | 1,150.50 | 1/4 | 889.13 | 1/4 | 630.09 | 1/4 | 367.00 | 1/4 | 103.94 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,671.16 | 1/2 | 1,408.18 | 1/2 | 1,145.02 | 1/2 | 883.73 | 1/2 | 624.65 | 1/2 | 361.52 | 1/2 | 98.48 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,665.68 | 3/4 | 1,402.69 | 3/4 | 1,139.54 | 3/4 | 878.33 | 3/4 | 619.17 | 3/4 | 356.04 | 3/4 | 93.03 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 1,660.21 | 1 | 1,397.21 | 1 | 1,134.06 | 1 | 872.93 | 1 | 613.69 | 1 | 350.56 | 1 | 87.58 | 1 | | 1 | | 1 | |
| 1/4 | 1,654.73 | 1/4 | 1,391.73 | 1/4 | 1,128.57 | 1/4 | 867.54 | 1/4 | 608.21 | 1/4 | 345.07 | 1/4 | 82.13 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,649.25 | 1/2 | 1,386.25 | 1/2 | 1,123.09 | 1/2 | 862.14 | 1/2 | 602.73 | 1/2 | 339.59 | 1/2 | 76.69 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,643.77 | 3/4 | 1,380.76 | 3/4 | 1,117.61 | 3/4 | 856.74 | 3/4 | 597.25 | 3/4 | 334.11 | 3/4 | 71.27 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 1,638.29 | 2 | 1,375.28 | 2 | 1,112.13 | 2 | 851.34 | 2 | 591.76 | 2 | 328.63 | 2 | 65.85 | 2 | | 2 | | 2 | |
| 1/4 | 1,632.81 | 1/4 | 1,369.80 | 1/4 | 1,106.64 | 1/4 | 845.95 | 1/4 | 586.28 | 1/4 | 323.15 | 1/4 | 60.43 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,627.33 | 1/2 | 1,364.32 | 1/2 | 1,101.16 | 1/2 | 840.55 | 1/2 | 580.80 | 1/2 | 317.66 | 1/2 | 55.01 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,621.85 | 3/4 | 1,358.83 | 3/4 | 1,095.68 | 3/4 | 835.15 | 3/4 | 575.32 | 3/4 | 312.18 | 3/4 | 49.64 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 1,616.37 | 3 | 1,353.35 | 3 | 1,090.20 | 3 | 829.75 | 3 | 569.84 | 3 | 306.70 | 3 | 44.27 | 3 | | 3 | | 3 | |
| 1/4 | 1,610.90 | 1/4 | 1,347.87 | 1/4 | 1,084.71 | 1/4 | 824.35 | 1/4 | 564.35 | 1/4 | 301.22 | 1/4 | 38.90 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,605.42 | 1/2 | 1,342.39 | 1/2 | 1,079.23 | 1/2 | 818.96 | 1/2 | 558.87 | 1/2 | 295.74 | 1/2 | 33.54 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,599.94 | 3/4 | 1,336.90 | 3/4 | 1,073.75 | 3/4 | 813.56 | 3/4 | 553.39 | 3/4 | 290.25 | 3/4 | 28.98 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 1,594.46 | 4 | 1,331.42 | 4 | 1,068.27 | 4 | 808.17 | 4 | 547.91 | 4 | 284.77 | 4 | 24.42 | 4 | | 4 | | 4 | |
| 1/4 | 1,588.98 | 1/4 | 1,325.94 | 1/4 | 1,062.78 | 1/4 | 802.78 | 1/4 | 542.43 | 1/4 | 279.29 | 1/4 | 19.85 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,583.50 | 1/2 | 1,320.46 | 1/2 | 1,057.30 | 1/2 | 797.39 | 1/2 | 536.94 | 1/2 | 273.81 | 1/2 | 15.29 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,578.02 | 3/4 | 1,314.98 | 3/4 | 1,051.82 | 3/4 | 792.00 | 3/4 | 531.46 | 3/4 | 268.33 | 3/4 | 12.55 | 3/4 | | 3/4 | | 3/4 | |
| 5 | 1,572.54 | 5 | 1,309.49 | 5 | 1,046.34 | 5 | 786.60 | 5 | 525.98 | 5 | 262.84 | 5 | 9.81 | 5 | | 5 | | 5 | |
| 1/4 | 1,567.06 | 1/4 | 1,304.01 | 1/4 | 1,040.86 | 1/4 | 781.21 | 1/4 | 520.50 | 1/4 | 257.36 | 1/4 | 7.07 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,561.59 | 1/2 | 1,298.53 | 1/2 | 1,035.37 | 1/2 | 775.82 | 1/2 | 515.02 | 1/2 | 251.88 | 1/2 | 4.33 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,556.11 | 3/4 | 1,293.05 | 3/4 | 1,029.89 | 3/4 | 770.43 | 3/4 | 509.53 | 3/4 | 246.40 | 3/4 | 3.42 | 3/4 | | 3/4 | | 3/4 | |
| 6 | 1,550.63 | 6 | 1,287.56 | 6 | 1,024.41 | 6 | 765.03 | 6 | 504.05 | 6 | 240.92 | 6 | 2.50 | 6 | | 6 | | 6 | |
| 1/4 | 1,545.15 | 1/4 | 1,282.08 | 1/4 | 1,018.93 | 1/4 | 759.64 | 1/4 | 498.57 | 1/4 | 235.43 | 1/4 | 1.59 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,539.67 | 1/2 | 1,276.60 | 1/2 | 1,013.44 | 1/2 | 754.25 | 1/2 | 493.09 | 1/2 | 229.95 | 1/2 | 0.68 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,534.19 | 3/4 | 1,271.12 | 3/4 | 1,008.00 | 3/4 | 748.86 | 3/4 | 487.61 | 3/4 | 224.47 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 1,528.71 | 7 | 1,265.63 | 7 | 1,002.56 | 7 | 743.46 | 7 | 482.12 | 7 | 218.99 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 1,523.23 | 1/4 | 1,260.15 | 1/4 | 997.12 | 1/4 | 738.07 | 1/4 | 476.64 | 1/4 | 213.51 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,517.75 | 1/2 | 1,254.67 | 1/2 | 991.68 | 1/2 | 732.68 | 1/2 | 471.16 | 1/2 | 208.02 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,512.27 | 3/4 | 1,249.19 | 3/4 | 986.28 | 3/4 | 727.29 | 3/4 | 465.68 | 3/4 | 202.54 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 1,506.80 | 8 | 1,243.70 | 8 | 980.89 | 8 | 721.90 | 8 | 460.20 | 8 | 197.06 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 1,501.32 | 1/4 | 1,238.22 | 1/4 | 975.49 | 1/4 | 716.50 | 1/4 | 454.71 | 1/4 | 191.58 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,495.84 | 1/2 | 1,232.74 | 1/2 | 970.09 | 1/2 | 711.11 | 1/2 | 449.23 | 1/2 | 186.10 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,490.36 | 3/4 | 1,227.26 | 3/4 | 964.69 | 3/4 | 705.72 | 3/4 | 443.75 | 3/4 | 180.61 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 1,484.88 | 9 | 1,221.77 | 9 | 959.29 | 9 | 700.33 | 9 | 438.27 | 9 | 175.13 | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 1,479.40 | 1/4 | 1,216.29 | 1/4 | 953.90 | 1/4 | 694.93 | 1/4 | 432.79 | 1/4 | 169.65 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,473.92 | 1/2 | 1,210.81 | 1/2 | 948.50 | 1/2 | 689.54 | 1/2 | 427.30 | 1/2 | 164.17 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,468.44 | 3/4 | 1,205.33 | 3/4 | 943.10 | 3/4 | 684.15 | 3/4 | 421.82 | 3/4 | 158.69 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,462.96 | 10 | 1,199.84 | 10 | 937.70 | 10 | 678.76 | 10 | 416.34 | 10 | 153.20 | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 1,457.49 | 1/4 | 1,194.36 | 1/4 | 932.31 | 1/4 | 673.36 | 1/4 | 410.86 | 1/4 | 147.72 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,452.01 | 1/2 | 1,188.88 | 1/2 | 926.91 | 1/2 | 667.97 | 1/2 | 405.38 | 1/2 | 142.24 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,446.53 | 3/4 | 1,183.40 | 3/4 | 921.51 | 3/4 | 662.58 | 3/4 | 399.89 | 3/4 | 136.77 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,441.05 | 11 | 1,177.92 | 11 | 916.11 | 11 | 657.19 | 11 | 394.41 | 11 | 131.29 | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 1,435.57 | 1/4 | 1,172.43 | 1/4 | 910.72 | 1/4 | 651.80 | 1/4 | 388.93 | 1/4 | 125.81 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,430.09 | 1/2 | 1,166.95 | 1/2 | 905.32 | 1/2 | 646.41 | 1/2 | 383.45 | 1/2 | 120.34 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,424.61 | 3/4 | 1,161.47 | 3/4 | 899.92 | 3/4 | 640.97 | 3/4 | 377.97 | 3/4 | 114.87 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2014 SW
CALCULATED: 03/28/2014 CL
PRINTED: 03/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2014

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



BARGE "KIRBY 10116"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

| 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 | 0 | 0 | 0 | 3,239.33 | 0 | 2,979.45 | 0 | 2,719.58 | 0 | 2,459.29 | 0 | 2,198.01 | 0 | 1,936.73 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,233.91 | 1/4 | 2,974.04 | 1/4 | 2,714.16 | 1/4 | 2,453.85 | 1/4 | 2,192.57 | 1/4 | 1,931.29 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,453.41 | 1/2 | 3,228.50 | 1/2 | 2,968.62 | 1/2 | 2,708.75 | 1/2 | 2,448.40 | 1/2 | 2,187.12 | 1/2 | 1,925.85 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,452.50 | 3/4 | 3,223.09 | 3/4 | 2,963.21 | 3/4 | 2,703.33 | 3/4 | 2,442.96 | 3/4 | 2,181.68 | 3/4 | 1,920.40 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3,451.60 | 1 | 3,217.67 | 1 | 2,957.80 | 1 | 2,697.92 | 1 | 2,437.52 | 1 | 2,176.24 | 1 | 1,914.96 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,450.69 | 1/4 | 3,212.26 | 1/4 | 2,952.38 | 1/4 | 2,692.50 | 1/4 | 2,432.07 | 1/4 | 2,170.79 | 1/4 | 1,909.52 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,449.78 | 1/2 | 3,206.84 | 1/2 | 2,946.97 | 1/2 | 2,687.09 | 1/2 | 2,426.63 | 1/2 | 2,165.35 | 1/2 | 1,904.07 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,447.06 | 3/4 | 3,201.43 | 3/4 | 2,941.55 | 3/4 | 2,681.68 | 3/4 | 2,421.19 | 3/4 | 2,159.91 | 3/4 | 1,898.63 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3,444.33 | 2 | 3,196.02 | 2 | 2,936.14 | 2 | 2,676.26 | 2 | 2,415.74 | 2 | 2,154.46 | 2 | 1,893.19 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,441.61 | 1/4 | 3,190.60 | 1/4 | 2,930.73 | 1/4 | 2,670.85 | 1/4 | 2,410.30 | 1/4 | 2,149.02 | 1/4 | 1,887.74 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,438.89 | 1/2 | 3,185.19 | 1/2 | 2,925.31 | 1/2 | 2,665.43 | 1/2 | 2,404.86 | 1/2 | 2,143.58 | 1/2 | 1,882.30 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,434.48 | 3/4 | 3,179.77 | 3/4 | 2,919.90 | 3/4 | 2,660.02 | 3/4 | 2,399.41 | 3/4 | 2,138.13 | 3/4 | 1,876.86 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3,430.07 | 3 | 3,174.36 | 3 | 2,914.48 | 3 | 2,654.61 | 3 | 2,393.97 | 3 | 2,132.69 | 3 | 1,871.41 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,425.66 | 1/4 | 3,168.95 | 1/4 | 2,909.07 | 1/4 | 2,649.19 | 1/4 | 2,388.53 | 1/4 | 2,127.25 | 1/4 | 1,865.97 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,421.25 | 1/2 | 3,163.53 | 1/2 | 2,903.65 | 1/2 | 2,643.78 | 1/2 | 2,383.08 | 1/2 | 2,121.81 | 1/2 | 1,860.53 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,415.97 | 3/4 | 3,158.12 | 3/4 | 2,898.24 | 3/4 | 2,638.36 | 3/4 | 2,377.64 | 3/4 | 2,116.36 | 3/4 | 1,855.08 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 3,410.70 | 4 | 3,152.70 | 4 | 2,892.83 | 4 | 2,632.95 | 4 | 2,372.20 | 4 | 2,110.92 | 4 | 1,849.64 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,405.42 | 1/4 | 3,147.29 | 1/4 | 2,887.41 | 1/4 | 2,627.54 | 1/4 | 2,366.75 | 1/4 | 2,105.48 | 1/4 | 1,844.20 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,400.15 | 1/2 | 3,141.88 | 1/2 | 2,882.00 | 1/2 | 2,622.12 | 1/2 | 2,361.31 | 1/2 | 2,100.03 | 1/2 | 1,838.75 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,394.84 | 3/4 | 3,136.46 | 3/4 | 2,876.58 | 3/4 | 2,616.71 | 3/4 | 2,355.87 | 3/4 | 2,094.59 | 3/4 | 1,833.31 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 3,389.54 | 5 | 3,131.05 | 5 | 2,871.17 | 5 | 2,611.29 | 5 | 2,350.42 | 5 | 2,089.15 | 5 | 1,827.87 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,384.23 | 1/4 | 3,125.63 | 1/4 | 2,865.76 | 1/4 | 2,605.88 | 1/4 | 2,344.98 | 1/4 | 2,083.70 | 1/4 | 1,822.42 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,378.92 | 1/2 | 3,120.22 | 1/2 | 2,860.34 | 1/2 | 2,600.47 | 1/2 | 2,339.54 | 1/2 | 2,078.26 | 1/2 | 1,816.98 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,373.60 | 3/4 | 3,114.80 | 3/4 | 2,854.93 | 3/4 | 2,595.05 | 3/4 | 2,334.09 | 3/4 | 2,072.82 | 3/4 | 1,811.54 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 3,368.28 | 6 | 3,109.39 | 6 | 2,849.51 | 6 | 2,589.64 | 6 | 2,328.65 | 6 | 2,067.37 | 6 | 1,806.09 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,362.96 | 1/4 | 3,103.98 | 1/4 | 2,844.10 | 1/4 | 2,584.22 | 1/4 | 2,323.21 | 1/4 | 2,061.93 | 1/4 | 1,800.65 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,357.64 | 1/2 | 3,098.56 | 1/2 | 2,838.69 | 1/2 | 2,578.81 | 1/2 | 2,317.76 | 1/2 | 2,056.49 | 1/2 | 1,795.21 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,352.32 | 3/4 | 3,093.15 | 3/4 | 2,833.27 | 3/4 | 2,573.39 | 3/4 | 2,312.32 | 3/4 | 2,051.04 | 3/4 | 1,789.76 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3,347.01 | 7 | 3,087.73 | 7 | 2,827.86 | 7 | 2,567.98 | 7 | 2,306.88 | 7 | 2,045.60 | 7 | 1,784.32 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,341.70 | 1/4 | 3,082.32 | 1/4 | 2,822.44 | 1/4 | 2,562.57 | 1/4 | 2,301.43 | 1/4 | 2,040.16 | 1/4 | 1,778.88 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,336.38 | 1/2 | 3,076.91 | 1/2 | 2,817.03 | 1/2 | 2,557.15 | 1/2 | 2,295.99 | 1/2 | 2,034.71 | 1/2 | 1,773.43 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,331.07 | 3/4 | 3,071.49 | 3/4 | 2,811.61 | 3/4 | 2,551.74 | 3/4 | 2,290.55 | 3/4 | 2,029.27 | 3/4 | 1,767.99 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 3,325.75 | 8 | 3,066.08 | 8 | 2,806.20 | 8 | 2,546.32 | 8 | 2,285.10 | 8 | 2,023.83 | 8 | 1,762.55 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,320.44 | 1/4 | 3,060.66 | 1/4 | 2,800.79 | 1/4 | 2,540.91 | 1/4 | 2,279.66 | 1/4 | 2,018.38 | 1/4 | 1,757.10 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,315.13 | 1/2 | 3,055.25 | 1/2 | 2,795.37 | 1/2 | 2,535.50 | 1/2 | 2,274.22 | 1/2 | 2,012.94 | 1/2 | 1,751.66 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,309.71 | 3/4 | 3,049.84 | 3/4 | 2,789.96 | 3/4 | 2,530.05 | 3/4 | 2,268.77 | 3/4 | 2,007.50 | 3/4 | 1,746.22 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 3,304.30 | 9 | 3,044.42 | 9 | 2,784.54 | 9 | 2,524.61 | 9 | 2,263.33 | 9 | 2,002.05 | 9 | 1,740.77 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,298.88 | 1/4 | 3,039.01 | 1/4 | 2,779.13 | 1/4 | 2,519.17 | 1/4 | 2,257.89 | 1/4 | 1,996.61 | 1/4 | 1,735.33 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,293.47 | 1/2 | 3,033.59 | 1/2 | 2,773.72 | 1/2 | 2,513.72 | 1/2 | 2,252.44 | 1/2 | 1,991.17 | 1/2 | 1,729.89 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,288.06 | 3/4 | 3,028.18 | 3/4 | 2,768.30 | 3/4 | 2,508.28 | 3/4 | 2,247.00 | 3/4 | 1,985.72 | 3/4 | 1,724.44 |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 3,282.64 | 10 | 3,022.76 | 10 | 2,762.89 | 10 | 2,502.84 | 10 | 2,241.56 | 10 | 1,980.28 | 10 | 1,719.00 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,277.23 | 1/4 | 3,017.35 | 1/4 | 2,757.47 | 1/4 | 2,497.39 | 1/4 | 2,236.11 | 1/4 | 1,974.84 | 1/4 | 1,713.56 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,271.81 | 1/2 | 3,011.94 | 1/2 | 2,752.06 | 1/2 | 2,491.95 | 1/2 | 2,230.67 | 1/2 | 1,969.39 | 1/2 | 1,708.11 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,266.40 | 3/4 | 3,006.52 | 3/4 | 2,746.65 | 3/4 | 2,486.51 | 3/4 | 2,225.23 | 3/4 | 1,963.95 | 3/4 | 1,702.67 |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 3,260.99 | 11 | 3,001.11 | 11 | 2,741.23 | 11 | 2,481.06 | 11 | 2,219.78 | 11 | 1,958.51 | 11 | 1,697.23 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,255.57 | 1/4 | 2,995.69 | 1/4 | 2,735.82 | 1/4 | 2,475.62 | 1/4 | 2,214.34 | 1/4 | 1,953.06 | 1/4 | 1,691.78 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,250.16 | 1/2 | 2,990.28 | 1/2 | 2,730.40 | 1/2 | 2,470.18 | 1/2 | 2,208.90 | 1/2 | 1,947.62 | 1/2 | 1,686.34 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,244.74 | 3/4 | 2,984.87 | 3/4 | 2,724.99 | 3/4 | 2,464.73 | 3/4 | 2,203.45 | 3/4 | 1,942.18 | 3/4 | 1,680.90 |

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 ON CENTERLINE AND 27'-06" FORWARD OF AFT BULKHEAD

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 10116"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 1/2"

| 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 | 1,675.45 | 0 | 1,414.18 | 0 | 1,152.74 | 0 | 892.10 | 0 | 631.49 | 0 | 370.06 | 0 | 108.70 | 0 | | 0 | | 0 | |
| 1/4 | 1,670.01 | 1/4 | 1,408.73 | 1/4 | 1,147.29 | 1/4 | 886.69 | 1/4 | 626.04 | 1/4 | 364.62 | 1/4 | 103.27 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,664.57 | 1/2 | 1,403.29 | 1/2 | 1,141.85 | 1/2 | 881.28 | 1/2 | 620.59 | 1/2 | 359.17 | 1/2 | 97.84 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,659.12 | 3/4 | 1,397.84 | 3/4 | 1,136.40 | 3/4 | 875.87 | 3/4 | 615.15 | 3/4 | 353.73 | 3/4 | 92.43 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 1,653.68 | 1 | 1,392.40 | 1 | 1,130.95 | 1 | 870.46 | 1 | 609.70 | 1 | 348.28 | 1 | 87.02 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 1,648.24 | 1/4 | 1,386.95 | 1/4 | 1,125.51 | 1/4 | 865.05 | 1/4 | 604.26 | 1/4 | 342.83 | 1/4 | 81.60 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,642.79 | 1/2 | 1,381.50 | 1/2 | 1,120.06 | 1/2 | 859.64 | 1/2 | 598.81 | 1/2 | 337.39 | 1/2 | 76.19 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,637.35 | 3/4 | 1,376.06 | 3/4 | 1,114.61 | 3/4 | 854.23 | 3/4 | 593.36 | 3/4 | 331.94 | 3/4 | 70.81 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 1,631.91 | 2 | 1,370.61 | 2 | 1,109.17 | 2 | 848.82 | 2 | 587.92 | 2 | 326.49 | 2 | 65.43 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 1,626.46 | 1/4 | 1,365.16 | 1/4 | 1,103.72 | 1/4 | 843.40 | 1/4 | 582.47 | 1/4 | 321.05 | 1/4 | 60.04 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,621.02 | 1/2 | 1,359.72 | 1/2 | 1,098.27 | 1/2 | 837.99 | 1/2 | 577.02 | 1/2 | 315.60 | 1/2 | 54.66 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,615.58 | 3/4 | 1,354.27 | 3/4 | 1,092.83 | 3/4 | 832.58 | 3/4 | 571.58 | 3/4 | 310.16 | 3/4 | 49.32 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 1,610.13 | 3 | 1,348.82 | 3 | 1,087.38 | 3 | 827.17 | 3 | 566.13 | 3 | 304.71 | 3 | 43.99 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 1,604.69 | 1/4 | 1,343.38 | 1/4 | 1,081.93 | 1/4 | 821.76 | 1/4 | 560.69 | 1/4 | 299.26 | 1/4 | 38.66 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,599.25 | 1/2 | 1,337.93 | 1/2 | 1,076.49 | 1/2 | 816.35 | 1/2 | 555.24 | 1/2 | 293.82 | 1/2 | 33.32 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,593.80 | 3/4 | 1,332.48 | 3/4 | 1,071.04 | 3/4 | 810.95 | 3/4 | 549.79 | 3/4 | 288.37 | 3/4 | 28.79 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 1,588.36 | 4 | 1,327.04 | 4 | 1,065.59 | 4 | 805.54 | 4 | 544.35 | 4 | 282.92 | 4 | 24.26 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 1,582.92 | 1/4 | 1,321.59 | 1/4 | 1,060.15 | 1/4 | 800.14 | 1/4 | 538.90 | 1/4 | 277.48 | 1/4 | 19.73 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,577.48 | 1/2 | 1,316.14 | 1/2 | 1,054.70 | 1/2 | 794.73 | 1/2 | 533.45 | 1/2 | 272.03 | 1/2 | 15.20 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,572.03 | 3/4 | 1,310.70 | 3/4 | 1,049.25 | 3/4 | 789.29 | 3/4 | 528.01 | 3/4 | 266.59 | 3/4 | 12.48 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 1,566.59 | 5 | 1,305.25 | 5 | 1,043.81 | 5 | 783.85 | 5 | 522.56 | 5 | 261.14 | 5 | 9.75 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 1,561.15 | 1/4 | 1,299.80 | 1/4 | 1,038.36 | 1/4 | 778.41 | 1/4 | 517.11 | 1/4 | 255.69 | 1/4 | 7.03 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,555.70 | 1/2 | 1,294.36 | 1/2 | 1,032.91 | 1/2 | 772.97 | 1/2 | 511.67 | 1/2 | 250.25 | 1/2 | 4.31 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,550.26 | 3/4 | 1,288.91 | 3/4 | 1,027.47 | 3/4 | 767.53 | 3/4 | 506.22 | 3/4 | 244.80 | 3/4 | 3.40 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 1,544.82 | 6 | 1,283.46 | 6 | 1,022.02 | 6 | 762.08 | 6 | 500.78 | 6 | 239.35 | 6 | 2.49 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 1,539.37 | 1/4 | 1,278.02 | 1/4 | 1,016.57 | 1/4 | 756.64 | 1/4 | 495.33 | 1/4 | 233.91 | 1/4 | 1.59 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,533.93 | 1/2 | 1,272.57 | 1/2 | 1,011.13 | 1/2 | 751.20 | 1/2 | 489.88 | 1/2 | 228.46 | 1/2 | 0.68 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,528.49 | 3/4 | 1,267.12 | 3/4 | 1,005.72 | 3/4 | 745.76 | 3/4 | 484.44 | 3/4 | 223.01 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 1,523.04 | 7 | 1,261.68 | 7 | 1,000.31 | 7 | 740.32 | 7 | 478.99 | 7 | 217.57 | 7 | | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 1,517.60 | 1/4 | 1,256.23 | 1/4 | 994.90 | 1/4 | 734.88 | 1/4 | 473.54 | 1/4 | 212.12 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,512.16 | 1/2 | 1,250.78 | 1/2 | 989.49 | 1/2 | 729.44 | 1/2 | 468.10 | 1/2 | 206.68 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,506.71 | 3/4 | 1,245.34 | 3/4 | 984.08 | 3/4 | 723.99 | 3/4 | 462.65 | 3/4 | 201.23 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 1,501.27 | 8 | 1,239.89 | 8 | 978.66 | 8 | 718.55 | 8 | 457.21 | 8 | 195.78 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 1,495.83 | 1/4 | 1,234.44 | 1/4 | 973.25 | 1/4 | 713.11 | 1/4 | 451.76 | 1/4 | 190.34 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,490.38 | 1/2 | 1,229.00 | 1/2 | 967.84 | 1/2 | 707.67 | 1/2 | 446.31 | 1/2 | 184.89 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,484.94 | 3/4 | 1,223.55 | 3/4 | 962.43 | 3/4 | 702.23 | 3/4 | 440.87 | 3/4 | 179.44 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 1,479.50 | 9 | 1,218.10 | 9 | 957.02 | 9 | 696.79 | 9 | 435.42 | 9 | 174.00 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 1,474.05 | 1/4 | 1,212.65 | 1/4 | 951.61 | 1/4 | 691.35 | 1/4 | 429.97 | 1/4 | 168.55 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,468.61 | 1/2 | 1,207.21 | 1/2 | 946.20 | 1/2 | 685.90 | 1/2 | 424.53 | 1/2 | 163.11 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,463.17 | 3/4 | 1,201.76 | 3/4 | 940.79 | 3/4 | 680.46 | 3/4 | 419.08 | 3/4 | 157.66 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 1,457.72 | 10 | 1,196.31 | 10 | 935.38 | 10 | 675.02 | 10 | 413.64 | 10 | 152.21 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 1,452.28 | 1/4 | 1,190.87 | 1/4 | 929.97 | 1/4 | 669.58 | 1/4 | 408.19 | 1/4 | 146.77 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,446.84 | 1/2 | 1,185.42 | 1/2 | 924.56 | 1/2 | 664.14 | 1/2 | 402.74 | 1/2 | 141.32 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,441.39 | 3/4 | 1,179.97 | 3/4 | 919.15 | 3/4 | 658.70 | 3/4 | 397.30 | 3/4 | 135.88 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 1,435.95 | 11 | 1,174.53 | 11 | 913.74 | 11 | 653.26 | 11 | 391.85 | 11 | 130.44 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 1,430.51 | 1/4 | 1,169.08 | 1/4 | 908.33 | 1/4 | 647.82 | 1/4 | 386.40 | 1/4 | 125.00 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 1,425.06 | 1/2 | 1,163.63 | 1/2 | 902.92 | 1/2 | 642.38 | 1/2 | 380.96 | 1/2 | 119.56 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 1,419.62 | 3/4 | 1,158.19 | 3/4 | 897.51 | 3/4 | 636.93 | 3/4 | 375.51 | 3/4 | 114.13 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/27/2014 SW
CALCULATED: 03/28/2014 CL
PRINTED: 03/28/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2014

PRECISION MEASUREMENT
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