



BARGE "KIRBY 29138"

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 PORT | 00-1/4 | - 00-1/4 | 00-5/8 | - 00-5/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-1/2 | - 01-1/2 | 01-3/4 | - 01-3/4 |
| 1 STBD | 00-1/4 | - 00-1/4 | 00-5/8 | - 00-5/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-1/2 | - 01-1/2 | 01-3/4 | - 01-3/4 |
| 2 PORT | 00-3/8 | - 00-3/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-5/8 | - 01-5/8 | 02-1/8 | - 02-1/8 | 02-1/2 | - 02-1/2 |
| 2 STBD | 00-3/8 | - 00-3/8 | 00-7/8 | - 00-7/8 | 01-1/4 | - 01-1/4 | 01-5/8 | - 01-5/8 | 02-0/8 | - 02-0/8 | 02-1/2 | - 02-1/2 |
| 3 PORT | 00-3/8 | - 00-3/8 | 00-3/4 | - 00-3/4 | 01-1/4 | - 01-1/4 | 01-5/8 | - 01-5/8 | 02-0/8 | - 02-0/8 | 02-3/8 | - 02-3/8 |
| 3 STBD | 00-3/8 | - 00-3/8 | 00-3/4 | - 00-3/4 | 01-1/4 | - 01-1/4 | 01-5/8 | - 01-5/8 | 02-0/8 | - 02-0/8 | 02-3/8 | - 02-3/8 |

(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 - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

December 15, 2014

PRECISION MEASUREMENT
 & ANALYSIS, INC.

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BARGE "KIRBY 29138"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
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BARGE "KIRBY 29138"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|--------|-----|--------|-----|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | 2,417.06 | 1/4 | 2,039.35 | 1/4 | 1,661.64 | 1/4 | 1,285.32 | 1/4 | 908.38 | 1/4 | 530.71 | 1/4 | 182.67 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,409.19 | 1/2 | 2,031.48 | 1/2 | 1,653.77 | 1/2 | 1,277.50 | 1/2 | 900.51 | 1/2 | 522.85 | 1/2 | 176.05 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,401.33 | 3/4 | 2,023.61 | 3/4 | 1,645.90 | 3/4 | 1,269.68 | 3/4 | 892.64 | 3/4 | 515.04 | 3/4 | 169.54 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 2,393.46 | 1 | 2,015.74 | 1 | 1,638.03 | 1 | 1,261.86 | 1 | 884.77 | 1 | 507.23 | 1 | 163.02 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 2,385.59 | 1/4 | 2,007.88 | 1/4 | 1,630.16 | 1/4 | 1,254.04 | 1/4 | 876.91 | 1/4 | 499.42 | 1/4 | 156.51 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,377.72 | 1/2 | 2,000.01 | 1/2 | 1,622.29 | 1/2 | 1,246.22 | 1/2 | 869.04 | 1/2 | 491.61 | 1/2 | 149.99 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,369.85 | 3/4 | 1,992.14 | 3/4 | 1,614.43 | 3/4 | 1,238.40 | 3/4 | 861.17 | 3/4 | 483.89 | 3/4 | 143.60 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 2,361.98 | 2 | 1,984.27 | 2 | 1,606.56 | 2 | 1,230.58 | 2 | 853.30 | 2 | 476.17 | 2 | 137.20 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 2,354.11 | 1/4 | 1,976.40 | 1/4 | 1,598.69 | 1/4 | 1,222.76 | 1/4 | 845.43 | 1/4 | 468.45 | 1/4 | 130.80 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,346.24 | 1/2 | 1,968.53 | 1/2 | 1,590.82 | 1/2 | 1,214.94 | 1/2 | 837.56 | 1/2 | 460.73 | 1/2 | 124.40 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,338.37 | 3/4 | 1,960.66 | 3/4 | 1,582.95 | 3/4 | 1,207.12 | 3/4 | 829.69 | 3/4 | 453.12 | 3/4 | 118.13 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 2,330.50 | 3 | 1,952.79 | 3 | 1,575.08 | 3 | 1,199.30 | 3 | 821.82 | 3 | 445.52 | 3 | 111.85 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 2,322.64 | 1/4 | 1,944.92 | 1/4 | 1,567.21 | 1/4 | 1,191.48 | 1/4 | 813.95 | 1/4 | 437.91 | 1/4 | 105.57 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,314.77 | 1/2 | 1,937.05 | 1/2 | 1,559.34 | 1/2 | 1,183.66 | 1/2 | 806.09 | 1/2 | 430.30 | 1/2 | 99.30 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,306.90 | 3/4 | 1,929.19 | 3/4 | 1,551.48 | 3/4 | 1,175.82 | 3/4 | 798.22 | 3/4 | 422.80 | 3/4 | 93.15 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 2,299.03 | 4 | 1,921.32 | 4 | 1,543.63 | 4 | 1,167.99 | 4 | 790.35 | 4 | 415.30 | 4 | 87.00 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 2,291.16 | 1/4 | 1,913.45 | 1/4 | 1,535.77 | 1/4 | 1,160.15 | 1/4 | 782.48 | 1/4 | 407.80 | 1/4 | 80.85 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,283.29 | 1/2 | 1,905.58 | 1/2 | 1,527.91 | 1/2 | 1,152.31 | 1/2 | 774.61 | 1/2 | 400.30 | 1/2 | 74.70 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,275.42 | 3/4 | 1,897.71 | 3/4 | 1,520.07 | 3/4 | 1,144.44 | 3/4 | 766.74 | 3/4 | 392.91 | 3/4 | 68.70 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 2,267.55 | 5 | 1,889.84 | 5 | 1,512.23 | 5 | 1,136.58 | 5 | 758.87 | 5 | 385.52 | 5 | 62.69 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 2,259.68 | 1/4 | 1,881.97 | 1/4 | 1,504.39 | 1/4 | 1,128.71 | 1/4 | 751.00 | 1/4 | 378.13 | 1/4 | 56.69 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,251.81 | 1/2 | 1,874.10 | 1/2 | 1,496.55 | 1/2 | 1,120.84 | 1/2 | 743.14 | 1/2 | 370.74 | 1/2 | 50.68 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,243.95 | 3/4 | 1,866.23 | 3/4 | 1,488.72 | 3/4 | 1,112.97 | 3/4 | 735.27 | 3/4 | 363.46 | 3/4 | 45.27 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 2,236.08 | 6 | 1,858.36 | 6 | 1,480.88 | 6 | 1,105.10 | 6 | 727.40 | 6 | 356.17 | 6 | 39.85 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 2,228.21 | 1/4 | 1,850.50 | 1/4 | 1,473.05 | 1/4 | 1,097.23 | 1/4 | 719.53 | 1/4 | 348.89 | 1/4 | 34.44 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,220.34 | 1/2 | 1,842.63 | 1/2 | 1,465.21 | 1/2 | 1,089.36 | 1/2 | 711.66 | 1/2 | 341.61 | 1/2 | 29.03 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,212.47 | 3/4 | 1,834.76 | 3/4 | 1,457.39 | 3/4 | 1,081.49 | 3/4 | 703.79 | 3/4 | 334.44 | 3/4 | 25.06 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 2,204.60 | 7 | 1,826.89 | 7 | 1,449.56 | 7 | 1,073.63 | 7 | 695.92 | 7 | 327.27 | 7 | 21.10 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 2,196.73 | 1/4 | 1,819.02 | 1/4 | 1,441.73 | 1/4 | 1,065.76 | 1/4 | 688.05 | 1/4 | 320.10 | 1/4 | 17.14 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,188.86 | 1/2 | 1,811.15 | 1/2 | 1,433.91 | 1/2 | 1,057.89 | 1/2 | 680.19 | 1/2 | 312.92 | 1/2 | 13.18 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,180.99 | 3/4 | 1,803.28 | 3/4 | 1,426.08 | 3/4 | 1,050.02 | 3/4 | 672.32 | 3/4 | 305.86 | 3/4 | 9.18 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 2,173.12 | 8 | 1,795.41 | 8 | 1,418.26 | 8 | 1,042.15 | 8 | 664.45 | 8 | 298.80 | 8 | 5.18 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 2,165.26 | 1/4 | 1,787.54 | 1/4 | 1,410.43 | 1/4 | 1,034.28 | 1/4 | 656.58 | 1/4 | 291.74 | 1/4 | 1.18 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,157.39 | 1/2 | 1,779.67 | 1/2 | 1,402.61 | 1/2 | 1,026.41 | 1/2 | 648.71 | 1/2 | 284.67 | 1/2 | 0.73 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,149.52 | 3/4 | 1,771.81 | 3/4 | 1,394.79 | 3/4 | 1,018.54 | 3/4 | 640.84 | 3/4 | 277.72 | 3/4 | 0.28 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 2,141.65 | 9 | 1,763.94 | 9 | 1,386.97 | 9 | 1,010.67 | 9 | 632.97 | 9 | 270.77 | 9 | 0.83 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 2,133.78 | 1/4 | 1,756.07 | 1/4 | 1,379.15 | 1/4 | 1,002.81 | 1/4 | 625.10 | 1/4 | 263.82 | 1/4 | 0.38 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,125.91 | 1/2 | 1,748.20 | 1/2 | 1,371.33 | 1/2 | 994.94 | 1/2 | 617.23 | 1/2 | 256.86 | 1/2 | 0.93 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,118.04 | 3/4 | 1,740.33 | 3/4 | 1,363.51 | 3/4 | 987.07 | 3/4 | 609.37 | 3/4 | 250.02 | 3/4 | 1.48 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 2,110.17 | 10 | 1,732.46 | 10 | 1,355.69 | 10 | 979.20 | 10 | 601.50 | 10 | 243.17 | 10 | 2.03 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 2,102.30 | 1/4 | 1,724.59 | 1/4 | 1,347.87 | 1/4 | 971.33 | 1/4 | 593.63 | 1/4 | 236.33 | 1/4 | 2.58 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,094.43 | 1/2 | 1,716.72 | 1/2 | 1,340.05 | 1/2 | 963.46 | 1/2 | 585.76 | 1/2 | 229.49 | 1/2 | 3.13 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,086.57 | 3/4 | 1,708.85 | 3/4 | 1,332.23 | 3/4 | 955.59 | 3/4 | 577.89 | 3/4 | 222.75 | 3/4 | 3.68 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 2,078.70 | 11 | 1,700.98 | 11 | 1,324.41 | 11 | 947.72 | 11 | 570.02 | 11 | 216.02 | 11 | 4.23 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 2,070.83 | 1/4 | 1,693.12 | 1/4 | 1,316.60 | 1/4 | 939.86 | 1/4 | 562.15 | 1/4 | 209.28 | 1/4 | 4.78 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,062.96 | 1/2 | 1,685.25 | 1/2 | 1,308.78 | 1/2 | 931.99 | 1/2 | 554.28 | 1/2 | 202.55 | 1/2 | 5.33 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,055.09 | 3/4 | 1,677.38 | 3/4 | 1,300.96 | 3/4 | 924.12 | 3/4 | 546.43 | 3/4 | 195.92 | 3/4 | 5.88 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

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CALCULATED: 12/15/2014 CL
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CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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 29138"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

| 0 FT. | | 1 FT. | | 2 FT. | | 3 FT. | | 4 FT. | | 5 FT. | | 6 FT. | | 7 FT. | | 8 FT. | | 9 FT. | | | |
|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-------|----|-----|----|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

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'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD.

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BARGE "KIRBY 29138"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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 | 2,426.04 | 0 | 2,048.43 | 0 | 1,670.83 | 0 | 1,293.22 | 0 | 915.90 | 0 | 538.42 | 0 | 189.25 | 0 | | 0 | | 0 | |
| 1/4 | 2,418.17 | 1/4 | 2,040.57 | 1/4 | 1,662.96 | 1/4 | 1,285.35 | 1/4 | 908.04 | 1/4 | 530.57 | 1/4 | 182.62 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,410.31 | 1/2 | 2,032.70 | 1/2 | 1,655.09 | 1/2 | 1,277.49 | 1/2 | 900.19 | 1/2 | 522.71 | 1/2 | 176.00 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,402.44 | 3/4 | 2,024.83 | 3/4 | 1,647.23 | 3/4 | 1,269.62 | 3/4 | 892.33 | 3/4 | 514.90 | 3/4 | 169.49 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 1 | 2,394.57 | 1 | 2,016.97 | 1 | 1,639.36 | 1 | 1,261.75 | 1 | 884.48 | 1 | 507.09 | 1 | 162.98 | 1 | 1 | | 1 | 1 | |
| 1/4 | 2,386.71 | 1/4 | 2,009.10 | 1/4 | 1,631.49 | 1/4 | 1,253.89 | 1/4 | 876.62 | 1/4 | 499.28 | 1/4 | 156.47 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,378.84 | 1/2 | 2,001.23 | 1/2 | 1,623.63 | 1/2 | 1,246.02 | 1/2 | 868.77 | 1/2 | 491.47 | 1/2 | 149.95 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,370.97 | 3/4 | 1,993.37 | 3/4 | 1,615.76 | 3/4 | 1,238.15 | 3/4 | 860.91 | 3/4 | 483.76 | 3/4 | 143.56 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 2 | 2,363.11 | 2 | 1,985.50 | 2 | 1,607.89 | 2 | 1,230.29 | 2 | 853.05 | 2 | 476.04 | 2 | 137.16 | 2 | 2 | | 2 | 2 | |
| 1/4 | 2,355.24 | 1/4 | 1,977.63 | 1/4 | 1,600.03 | 1/4 | 1,222.42 | 1/4 | 845.19 | 1/4 | 468.33 | 1/4 | 130.77 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,347.37 | 1/2 | 1,969.77 | 1/2 | 1,592.16 | 1/2 | 1,214.55 | 1/2 | 837.33 | 1/2 | 460.61 | 1/2 | 124.37 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,339.50 | 3/4 | 1,961.90 | 3/4 | 1,584.29 | 3/4 | 1,206.69 | 3/4 | 829.47 | 3/4 | 453.00 | 3/4 | 118.09 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 3 | 2,331.64 | 3 | 1,954.03 | 3 | 1,576.43 | 3 | 1,198.82 | 3 | 821.60 | 3 | 445.39 | 3 | 111.82 | 3 | 3 | | 3 | 3 | |
| 1/4 | 2,323.77 | 1/4 | 1,946.16 | 1/4 | 1,568.56 | 1/4 | 1,190.95 | 1/4 | 813.73 | 1/4 | 437.79 | 1/4 | 105.54 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,315.90 | 1/2 | 1,938.30 | 1/2 | 1,560.69 | 1/2 | 1,183.09 | 1/2 | 805.87 | 1/2 | 430.18 | 1/2 | 99.27 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,308.04 | 3/4 | 1,930.43 | 3/4 | 1,552.82 | 3/4 | 1,175.22 | 3/4 | 798.00 | 3/4 | 422.68 | 3/4 | 93.12 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 4 | 2,300.17 | 4 | 1,922.56 | 4 | 1,544.96 | 4 | 1,167.35 | 4 | 790.13 | 4 | 415.19 | 4 | 86.98 | 4 | 4 | | 4 | 4 | |
| 1/4 | 2,292.30 | 1/4 | 1,914.70 | 1/4 | 1,537.09 | 1/4 | 1,159.48 | 1/4 | 782.27 | 1/4 | 407.69 | 1/4 | 80.83 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,284.44 | 1/2 | 1,906.83 | 1/2 | 1,529.22 | 1/2 | 1,151.62 | 1/2 | 774.40 | 1/2 | 400.19 | 1/2 | 74.68 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,276.57 | 3/4 | 1,898.96 | 3/4 | 1,521.36 | 3/4 | 1,143.75 | 3/4 | 766.53 | 3/4 | 392.80 | 3/4 | 68.68 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 5 | 2,268.70 | 5 | 1,891.10 | 5 | 1,513.49 | 5 | 1,135.88 | 5 | 758.67 | 5 | 385.41 | 5 | 62.68 | 5 | 5 | | 5 | 5 | |
| 1/4 | 2,260.84 | 1/4 | 1,883.23 | 1/4 | 1,505.62 | 1/4 | 1,128.02 | 1/4 | 750.80 | 1/4 | 378.02 | 1/4 | 56.67 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,252.97 | 1/2 | 1,875.36 | 1/2 | 1,497.76 | 1/2 | 1,120.15 | 1/2 | 742.93 | 1/2 | 370.64 | 1/2 | 50.67 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,245.10 | 3/4 | 1,867.50 | 3/4 | 1,489.89 | 3/4 | 1,112.29 | 3/4 | 735.07 | 3/4 | 363.36 | 3/4 | 45.25 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 6 | 2,237.24 | 6 | 1,859.63 | 6 | 1,482.02 | 6 | 1,104.43 | 6 | 727.20 | 6 | 356.08 | 6 | 39.84 | 6 | 6 | | 6 | 6 | |
| 1/4 | 2,229.37 | 1/4 | 1,851.76 | 1/4 | 1,474.16 | 1/4 | 1,096.56 | 1/4 | 719.33 | 1/4 | 348.80 | 1/4 | 34.43 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,221.50 | 1/2 | 1,843.90 | 1/2 | 1,466.29 | 1/2 | 1,088.70 | 1/2 | 711.47 | 1/2 | 341.52 | 1/2 | 29.02 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,213.64 | 3/4 | 1,836.03 | 3/4 | 1,458.42 | 3/4 | 1,080.85 | 3/4 | 703.60 | 3/4 | 334.35 | 3/4 | 25.06 | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 7 | 2,205.77 | 7 | 1,828.16 | 7 | 1,450.56 | 7 | 1,072.99 | 7 | 695.73 | 7 | 327.18 | 7 | 21.10 | 7 | 7 | | 7 | 7 | |
| 1/4 | 2,197.90 | 1/4 | 1,820.30 | 1/4 | 1,442.69 | 1/4 | 1,065.14 | 1/4 | 687.87 | 1/4 | 320.01 | 1/4 | 17.14 | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,190.04 | 1/2 | 1,812.43 | 1/2 | 1,434.82 | 1/2 | 1,057.28 | 1/2 | 680.00 | 1/2 | 312.84 | 1/2 | 13.18 | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,182.17 | 3/4 | 1,804.56 | 3/4 | 1,426.96 | 3/4 | 1,049.43 | 3/4 | 672.13 | 3/4 | 305.78 | 3/4 | | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 8 | 2,174.30 | 8 | 1,796.70 | 8 | 1,419.09 | 8 | 1,041.57 | 8 | 664.27 | 8 | 298.72 | 8 | | 8 | 8 | | 8 | 8 | |
| 1/4 | 2,166.44 | 1/4 | 1,788.83 | 1/4 | 1,411.22 | 1/4 | 1,033.72 | 1/4 | 656.40 | 1/4 | 291.66 | 1/4 | | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,158.57 | 1/2 | 1,780.96 | 1/2 | 1,403.36 | 1/2 | 1,025.86 | 1/2 | 648.53 | 1/2 | 284.60 | 1/2 | | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,150.70 | 3/4 | 1,773.10 | 3/4 | 1,395.49 | 3/4 | 1,018.01 | 3/4 | 640.67 | 3/4 | 277.65 | 3/4 | | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 9 | 2,142.83 | 9 | 1,765.23 | 9 | 1,387.62 | 9 | 1,010.15 | 9 | 632.80 | 9 | 270.70 | 9 | | 9 | 9 | | 9 | 9 | |
| 1/4 | 2,134.97 | 1/4 | 1,757.36 | 1/4 | 1,379.76 | 1/4 | 1,002.30 | 1/4 | 624.93 | 1/4 | 263.74 | 1/4 | | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,127.10 | 1/2 | 1,749.49 | 1/2 | 1,371.89 | 1/2 | 994.44 | 1/2 | 617.07 | 1/2 | 256.79 | 1/2 | | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,119.23 | 3/4 | 1,741.63 | 3/4 | 1,364.02 | 3/4 | 986.59 | 3/4 | 609.20 | 3/4 | 249.95 | 3/4 | | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 10 | 2,111.37 | 10 | 1,733.76 | 10 | 1,356.15 | 10 | 978.74 | 10 | 601.33 | 10 | 243.11 | 10 | | 10 | 10 | | 10 | 10 | |
| 1/4 | 2,103.50 | 1/4 | 1,725.89 | 1/4 | 1,348.29 | 1/4 | 970.88 | 1/4 | 593.47 | 1/4 | 236.27 | 1/4 | | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,095.63 | 1/2 | 1,718.03 | 1/2 | 1,340.42 | 1/2 | 963.03 | 1/2 | 585.60 | 1/2 | 229.42 | 1/2 | | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,087.77 | 3/4 | 1,710.16 | 3/4 | 1,332.55 | 3/4 | 955.17 | 3/4 | 577.73 | 3/4 | 222.69 | 3/4 | | 3/4 | 3/4 | | 3/4 | 3/4 | |
| 11 | 2,079.90 | 11 | 1,702.29 | 11 | 1,324.69 | 11 | 947.32 | 11 | 569.87 | 11 | 215.96 | 11 | | 11 | 11 | | 11 | 11 | |
| 1/4 | 2,072.03 | 1/4 | 1,694.43 | 1/4 | 1,316.82 | 1/4 | 939.46 | 1/4 | 562.00 | 1/4 | 209.23 | 1/4 | | 1/4 | 1/4 | | 1/4 | 1/4 | |
| 1/2 | 2,064.17 | 1/2 | 1,686.56 | 1/2 | 1,308.95 | 1/2 | 931.61 | 1/2 | 554.13 | 1/2 | 202.49 | 1/2 | | 1/2 | 1/2 | | 1/2 | 1/2 | |
| 3/4 | 2,056.30 | 3/4 | 1,678.69 | 3/4 | 1,301.09 | 3/4 | 923.75 | 3/4 | 546.28 | 3/4 | 195.87 | 3/4 | | 3/4 | 3/4 | | 3/4 | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/15/2014 CL
CALCULATED: 12/15/2014 CL
PRINTED: 12/15/2014 CL

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ALL PRIOR TO 12/2014

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BARGE "KIRBY 29138"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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 | | 0 | | 0 | | 0 | | 0 | | 0 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | | 1 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | | 2 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | | 3 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | | 4 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 5 | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | | 5 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | | 6 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 7 | | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | | 7 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | | 8 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 9 | | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | | 9 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | | 10 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |
| 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | | 11 | |
| | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 |
| | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 |
| | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 |

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'-09" OFF CENTERLINE AND 52'-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 29138"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|--------|-----|--------|-----|
| IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | | IN | |
| 0 | 2,358.54 | 0 | 1,999.37 | 0 | 1,640.20 | 0 | 1,289.94 | 0 | 945.00 | 0 | 587.20 | 0 | 228.04 | 0 | | 0 | | 0 | |
| 1/4 | 2,351.05 | 1/4 | 1,991.88 | 1/4 | 1,632.71 | 1/4 | 1,282.74 | 1/4 | 937.82 | 1/4 | 579.72 | 1/4 | 220.56 | 1/4 | 1/4 | 0 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,343.57 | 1/2 | 1,984.40 | 1/2 | 1,625.23 | 1/2 | 1,275.54 | 1/2 | 930.64 | 1/2 | 572.24 | 1/2 | 213.08 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,336.09 | 3/4 | 1,976.92 | 3/4 | 1,617.75 | 3/4 | 1,268.34 | 3/4 | 923.35 | 3/4 | 564.75 | 3/4 | 205.60 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 2,328.61 | 1 | 1,969.44 | 1 | 1,610.27 | 1 | 1,261.14 | 1 | 916.05 | 1 | 557.27 | 1 | 198.12 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 2,321.12 | 1/4 | 1,961.95 | 1/4 | 1,602.78 | 1/4 | 1,253.94 | 1/4 | 908.76 | 1/4 | 549.79 | 1/4 | 190.64 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,313.64 | 1/2 | 1,954.47 | 1/2 | 1,595.30 | 1/2 | 1,246.74 | 1/2 | 901.47 | 1/2 | 542.31 | 1/2 | 183.15 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,306.16 | 3/4 | 1,946.99 | 3/4 | 1,587.82 | 3/4 | 1,239.54 | 3/4 | 893.98 | 3/4 | 534.82 | 3/4 | 175.68 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 2,298.67 | 2 | 1,939.50 | 2 | 1,580.34 | 2 | 1,232.34 | 2 | 886.50 | 2 | 527.34 | 2 | 168.21 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 2,291.19 | 1/4 | 1,932.02 | 1/4 | 1,572.85 | 1/4 | 1,225.14 | 1/4 | 879.02 | 1/4 | 519.86 | 1/4 | 160.73 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,283.71 | 1/2 | 1,924.54 | 1/2 | 1,565.37 | 1/2 | 1,217.94 | 1/2 | 871.54 | 1/2 | 512.38 | 1/2 | 153.26 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,276.23 | 3/4 | 1,917.06 | 3/4 | 1,557.89 | 3/4 | 1,210.75 | 3/4 | 864.05 | 3/4 | 504.89 | 3/4 | 145.80 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 2,268.74 | 3 | 1,909.57 | 3 | 1,550.40 | 3 | 1,203.55 | 3 | 856.57 | 3 | 497.41 | 3 | 138.33 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 2,261.26 | 1/4 | 1,902.09 | 1/4 | 1,542.92 | 1/4 | 1,196.36 | 1/4 | 849.09 | 1/4 | 489.93 | 1/4 | 130.87 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,253.78 | 1/2 | 1,894.61 | 1/2 | 1,535.44 | 1/2 | 1,189.16 | 1/2 | 841.61 | 1/2 | 482.45 | 1/2 | 123.41 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,246.30 | 3/4 | 1,887.13 | 3/4 | 1,528.06 | 3/4 | 1,181.98 | 3/4 | 834.12 | 3/4 | 474.96 | 3/4 | 115.96 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 2,238.81 | 4 | 1,879.64 | 4 | 1,520.68 | 4 | 1,174.79 | 4 | 826.64 | 4 | 467.48 | 4 | 108.52 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 2,231.33 | 1/4 | 1,872.16 | 1/4 | 1,513.31 | 1/4 | 1,167.60 | 1/4 | 819.16 | 1/4 | 460.00 | 1/4 | 101.07 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,223.85 | 1/2 | 1,864.68 | 1/2 | 1,505.93 | 1/2 | 1,160.41 | 1/2 | 811.68 | 1/2 | 452.52 | 1/2 | 93.63 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,216.36 | 3/4 | 1,857.20 | 3/4 | 1,498.73 | 3/4 | 1,153.23 | 3/4 | 804.19 | 3/4 | 445.03 | 3/4 | 86.21 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 2,208.88 | 5 | 1,849.71 | 5 | 1,491.53 | 5 | 1,146.05 | 5 | 796.71 | 5 | 437.55 | 5 | 78.80 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 2,201.40 | 1/4 | 1,842.23 | 1/4 | 1,484.33 | 1/4 | 1,138.86 | 1/4 | 789.23 | 1/4 | 430.07 | 1/4 | 71.39 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,193.92 | 1/2 | 1,834.75 | 1/2 | 1,477.13 | 1/2 | 1,131.68 | 1/2 | 781.75 | 1/2 | 422.59 | 1/2 | 63.97 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,186.43 | 3/4 | 1,827.26 | 3/4 | 1,469.93 | 3/4 | 1,124.50 | 3/4 | 774.26 | 3/4 | 415.10 | 3/4 | 57.02 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 2,178.95 | 6 | 1,819.78 | 6 | 1,462.73 | 6 | 1,117.32 | 6 | 766.78 | 6 | 407.62 | 6 | 50.07 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 2,171.47 | 1/4 | 1,812.30 | 1/4 | 1,455.53 | 1/4 | 1,110.14 | 1/4 | 759.30 | 1/4 | 400.14 | 1/4 | 43.11 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,163.99 | 1/2 | 1,804.82 | 1/2 | 1,448.33 | 1/2 | 1,102.96 | 1/2 | 751.82 | 1/2 | 392.66 | 1/2 | 36.16 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,156.50 | 3/4 | 1,797.33 | 3/4 | 1,441.13 | 3/4 | 1,095.78 | 3/4 | 744.33 | 3/4 | 385.17 | 3/4 | 30.86 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 2,149.02 | 7 | 1,789.85 | 7 | 1,433.93 | 7 | 1,088.60 | 7 | 736.85 | 7 | 377.69 | 7 | 25.56 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 2,141.54 | 1/4 | 1,782.37 | 1/4 | 1,426.73 | 1/4 | 1,081.42 | 1/4 | 729.37 | 1/4 | 370.21 | 1/4 | 20.26 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,134.05 | 1/2 | 1,774.89 | 1/2 | 1,419.53 | 1/2 | 1,074.24 | 1/2 | 721.89 | 1/2 | 362.73 | 1/2 | 14.97 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,126.57 | 3/4 | 1,767.40 | 3/4 | 1,412.33 | 3/4 | 1,067.06 | 3/4 | 714.40 | 3/4 | 355.24 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 2,119.09 | 8 | 1,759.92 | 8 | 1,405.14 | 8 | 1,059.88 | 8 | 706.92 | 8 | 347.76 | 8 | | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 2,111.61 | 1/4 | 1,752.44 | 1/4 | 1,397.94 | 1/4 | 1,052.70 | 1/4 | 699.44 | 1/4 | 340.28 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,104.12 | 1/2 | 1,744.95 | 1/2 | 1,390.74 | 1/2 | 1,045.52 | 1/2 | 691.96 | 1/2 | 332.80 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,096.64 | 3/4 | 1,737.47 | 3/4 | 1,383.54 | 3/4 | 1,038.34 | 3/4 | 684.47 | 3/4 | 325.31 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 2,089.16 | 9 | 1,729.99 | 9 | 1,376.34 | 9 | 1,031.16 | 9 | 676.99 | 9 | 317.83 | 9 | | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 2,081.68 | 1/4 | 1,722.51 | 1/4 | 1,369.14 | 1/4 | 1,023.98 | 1/4 | 669.51 | 1/4 | 310.35 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,074.19 | 1/2 | 1,715.02 | 1/2 | 1,361.94 | 1/2 | 1,016.80 | 1/2 | 662.03 | 1/2 | 302.87 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,066.71 | 3/4 | 1,707.54 | 3/4 | 1,354.74 | 3/4 | 1,009.62 | 3/4 | 654.54 | 3/4 | 295.38 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 2,059.23 | 10 | 1,700.06 | 10 | 1,347.54 | 10 | 1,002.44 | 10 | 647.06 | 10 | 287.90 | 10 | | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 2,051.75 | 1/4 | 1,692.58 | 1/4 | 1,340.34 | 1/4 | 995.26 | 1/4 | 639.58 | 1/4 | 280.42 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,044.26 | 1/2 | 1,685.09 | 1/2 | 1,333.14 | 1/2 | 988.08 | 1/2 | 632.10 | 1/2 | 272.94 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,036.78 | 3/4 | 1,677.61 | 3/4 | 1,325.94 | 3/4 | 980.90 | 3/4 | 624.61 | 3/4 | 265.45 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 2,029.30 | 11 | 1,670.13 | 11 | 1,318.74 | 11 | 973.72 | 11 | 617.13 | 11 | 257.97 | 11 | | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 2,021.81 | 1/4 | 1,662.64 | 1/4 | 1,311.54 | 1/4 | 966.54 | 1/4 | 609.65 | 1/4 | 250.49 | 1/4 | | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,014.33 | 1/2 | 1,655.16 | 1/2 | 1,304.34 | 1/2 | 959.36 | 1/2 | 602.17 | 1/2 | 243.01 | 1/2 | | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,006.85 | 3/4 | 1,647.68 | 3/4 | 1,297.14 | 3/4 | 952.18 | 3/4 | 594.68 | 3/4 | 235.52 | 3/4 | | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

STRAPPED: 12/15/2014 CL
CALCULATED: 12/15/2014 CL
PRINTED: 12/15/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 12/2014

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 29138"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 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 | 4,481.96 | 0 | 4,158.65 | 0 | 3,820.21 | 0 | 3,467.04 | 0 | 3,109.26 | 0 | 2,749.99 | | |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,792.56 | 1/4 | 4,475.38 | 1/4 | 4,151.75 | 1/4 | 3,812.99 | 1/4 | 3,459.59 | 1/4 | 3,101.77 | 1/4 | 2,742.51 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,787.45 | 1/2 | 4,468.79 | 1/2 | 4,144.85 | 1/2 | 3,805.77 | 1/2 | 3,452.14 | 1/2 | 3,094.29 | 1/2 | 2,735.03 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,782.34 | 3/4 | 4,462.21 | 3/4 | 4,137.95 | 3/4 | 3,798.56 | 3/4 | 3,444.69 | 3/4 | 3,086.80 | 3/4 | 2,727.54 |
| 1 | | 1 | | 1 | | 1 | 4,775.99 | 1 | 4,455.60 | 1 | 4,131.02 | 1 | 3,791.31 | 1 | 3,437.23 | 1 | 3,079.32 | 1 | 2,720.06 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,769.65 | 1/4 | 4,448.99 | 1/4 | 4,124.10 | 1/4 | 3,784.07 | 1/4 | 3,429.78 | 1/4 | 3,071.83 | 1/4 | 2,712.57 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,763.30 | 1/2 | 4,442.38 | 1/2 | 4,117.17 | 1/2 | 3,776.82 | 1/2 | 3,422.33 | 1/2 | 3,064.35 | 1/2 | 2,705.09 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,756.96 | 3/4 | 4,435.78 | 3/4 | 4,110.25 | 3/4 | 3,769.58 | 3/4 | 3,414.88 | 3/4 | 3,056.86 | 3/4 | 2,697.60 |
| 2 | | 2 | | 2 | | 2 | 4,749.72 | 2 | 4,429.14 | 2 | 4,103.30 | 2 | 3,762.31 | 2 | 3,407.43 | 2 | 3,049.38 | 2 | 2,690.12 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,742.49 | 1/4 | 4,422.50 | 1/4 | 4,096.35 | 1/4 | 3,755.05 | 1/4 | 3,399.97 | 1/4 | 3,041.89 | 1/4 | 2,682.63 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,735.26 | 1/2 | 4,415.87 | 1/2 | 4,089.39 | 1/2 | 3,747.78 | 1/2 | 3,392.52 | 1/2 | 3,034.41 | 1/2 | 2,675.15 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,728.03 | 3/4 | 4,409.23 | 3/4 | 4,082.44 | 3/4 | 3,740.51 | 3/4 | 3,385.07 | 3/4 | 3,026.92 | 3/4 | 2,667.66 |
| 3 | | 3 | | 3 | | 3 | 4,720.57 | 3 | 4,402.57 | 3 | 4,075.47 | 3 | 3,733.22 | 3 | 3,377.62 | 3 | 3,019.44 | 3 | 2,660.18 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,713.12 | 1/4 | 4,395.91 | 1/4 | 4,068.49 | 1/4 | 3,725.93 | 1/4 | 3,370.16 | 1/4 | 3,011.96 | 1/4 | 2,652.69 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,705.67 | 1/2 | 4,389.25 | 1/2 | 4,061.51 | 1/2 | 3,718.63 | 1/2 | 3,362.71 | 1/2 | 3,004.47 | 1/2 | 2,645.21 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,698.22 | 3/4 | 4,382.58 | 3/4 | 4,054.53 | 3/4 | 3,711.34 | 3/4 | 3,355.26 | 3/4 | 2,996.99 | 3/4 | 2,637.73 |
| 4 | | 4 | | 4 | | 4 | 4,691.16 | 4 | 4,375.89 | 4 | 4,047.53 | 4 | 3,704.02 | 4 | 3,347.81 | 4 | 2,989.50 | 4 | 2,630.24 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,684.11 | 1/4 | 4,369.21 | 1/4 | 4,040.52 | 1/4 | 3,696.70 | 1/4 | 3,340.35 | 1/4 | 2,982.02 | 1/4 | 2,622.76 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,677.05 | 1/2 | 4,362.52 | 1/2 | 4,033.52 | 1/2 | 3,689.38 | 1/2 | 3,332.90 | 1/2 | 2,974.53 | 1/2 | 2,615.27 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,670.00 | 3/4 | 4,355.83 | 3/4 | 4,026.52 | 3/4 | 3,682.06 | 3/4 | 3,325.45 | 3/4 | 2,967.05 | 3/4 | 2,607.79 |
| 5 | | 5 | | 5 | | 5 | 4,663.60 | 5 | 4,349.11 | 5 | 4,019.49 | 5 | 3,674.72 | 5 | 3,318.00 | 5 | 2,959.56 | 5 | 2,600.30 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,657.20 | 1/4 | 4,342.40 | 1/4 | 4,012.46 | 1/4 | 3,667.37 | 1/4 | 3,310.54 | 1/4 | 2,952.08 | 1/4 | 2,592.82 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,650.80 | 1/2 | 4,335.68 | 1/2 | 4,005.42 | 1/2 | 3,660.03 | 1/2 | 3,303.09 | 1/2 | 2,944.59 | 1/2 | 2,585.33 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,644.40 | 3/4 | 4,328.97 | 3/4 | 3,998.39 | 3/4 | 3,652.68 | 3/4 | 3,295.64 | 3/4 | 2,937.11 | 3/4 | 2,577.85 |
| 6 | | 6 | | 6 | | 6 | 4,637.97 | 6 | 4,322.23 | 6 | 3,991.34 | 6 | 3,645.31 | 6 | 3,288.19 | 6 | 2,929.62 | 6 | 2,570.36 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,631.54 | 1/4 | 4,315.48 | 1/4 | 3,984.28 | 1/4 | 3,637.94 | 1/4 | 3,280.73 | 1/4 | 2,922.14 | 1/4 | 2,562.88 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,625.12 | 1/2 | 4,308.74 | 1/2 | 3,977.22 | 1/2 | 3,630.56 | 1/2 | 3,273.28 | 1/2 | 2,914.66 | 1/2 | 2,555.39 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,618.69 | 3/4 | 4,302.00 | 3/4 | 3,970.17 | 3/4 | 3,623.19 | 3/4 | 3,265.83 | 3/4 | 2,907.17 | 3/4 | 2,547.91 |
| 7 | | 7 | | 7 | | 7 | 4,612.24 | 7 | 4,295.23 | 7 | 3,963.08 | 7 | 3,615.79 | 7 | 3,258.38 | 7 | 2,899.69 | 7 | 2,540.43 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,605.78 | 1/4 | 4,288.46 | 1/4 | 3,956.00 | 1/4 | 3,608.39 | 1/4 | 3,250.92 | 1/4 | 2,892.20 | 1/4 | 2,532.94 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,599.33 | 1/2 | 4,281.69 | 1/2 | 3,948.92 | 1/2 | 3,601.00 | 1/2 | 3,243.47 | 1/2 | 2,884.72 | 1/2 | 2,525.46 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,592.87 | 3/4 | 4,274.93 | 3/4 | 3,941.83 | 3/4 | 3,593.60 | 3/4 | 3,236.02 | 3/4 | 2,877.23 | 3/4 | 2,517.97 |
| 8 | | 8 | | 8 | | 8 | 4,586.39 | 8 | 4,268.13 | 8 | 3,934.72 | 8 | 3,586.17 | 8 | 3,228.57 | 8 | 2,869.75 | 8 | 2,510.49 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,579.91 | 1/4 | 4,261.33 | 1/4 | 3,927.61 | 1/4 | 3,578.75 | 1/4 | 3,221.12 | 1/4 | 2,862.26 | 1/4 | 2,503.00 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,573.43 | 1/2 | 4,254.54 | 1/2 | 3,920.50 | 1/2 | 3,571.32 | 1/2 | 3,213.66 | 1/2 | 2,854.78 | 1/2 | 2,495.52 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,566.95 | 3/4 | 4,247.74 | 3/4 | 3,913.39 | 3/4 | 3,563.89 | 3/4 | 3,206.21 | 3/4 | 2,847.29 | 3/4 | 2,488.03 |
| 9 | | 9 | | 9 | | 9 | 4,560.45 | 9 | 4,240.92 | 9 | 3,906.25 | 9 | 3,556.45 | 9 | 3,198.76 | 9 | 2,839.81 | 9 | 2,480.55 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,553.94 | 1/4 | 4,234.10 | 1/4 | 3,899.12 | 1/4 | 3,549.00 | 1/4 | 3,191.31 | 1/4 | 2,832.33 | 1/4 | 2,473.06 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,547.43 | 1/2 | 4,227.28 | 1/2 | 3,891.98 | 1/2 | 3,541.56 | 1/2 | 3,183.85 | 1/2 | 2,824.84 | 1/2 | 2,465.58 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,540.92 | 3/4 | 4,220.46 | 3/4 | 3,884.84 | 3/4 | 3,534.12 | 3/4 | 3,176.40 | 3/4 | 2,817.36 | 3/4 | 2,458.10 |
| 10 | | 10 | | 10 | | 10 | 4,534.39 | 10 | 4,213.61 | 10 | 3,877.68 | 10 | 3,526.66 | 10 | 3,168.95 | 10 | 2,809.87 | 10 | 2,450.61 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,527.85 | 1/4 | 4,206.76 | 1/4 | 3,870.51 | 1/4 | 3,519.21 | 1/4 | 3,161.50 | 1/4 | 2,802.39 | 1/4 | 2,443.13 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,521.32 | 1/2 | 4,199.91 | 1/2 | 3,863.35 | 1/2 | 3,511.76 | 1/2 | 3,154.04 | 1/2 | 2,794.90 | 1/2 | 2,435.64 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,514.79 | 3/4 | 4,193.06 | 3/4 | 3,856.19 | 3/4 | 3,504.31 | 3/4 | 3,146.59 | 3/4 | 2,787.42 | 3/4 | 2,428.16 |
| 11 | | 11 | | 11 | | 11 | 4,508.23 | 11 | 4,186.18 | 11 | 3,849.00 | 11 | 3,496.85 | 11 | 3,139.13 | 11 | 2,779.93 | 11 | 2,420.67 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,501.67 | 1/4 | 4,179.31 | 1/4 | 3,841.81 | 1/4 | 3,489.40 | 1/4 | 3,131.67 | 1/4 | 2,772.45 | 1/4 | 2,413.19 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,495.10 | 1/2 | 4,172.43 | 1/2 | 3,834.61 | 1/2 | 3,481.95 | 1/2 | 3,124.20 | 1/2 | 2,764.96 | 1/2 | 2,405.70 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,488.54 | 3/4 | 4,165.56 | 3/4 | 3,827.42 | 3/4 | 3,474.50 | 3/4 | 3,116.74 | 3/4 | 2,757.48 | 3/4 | 2,398.22 |

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'-09" OFF CENTERLINE AND 52'-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 29138"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|-----|--------|-----|--------|-----|
| IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 | IN | 0 |
| 1/4 | 2,383.25 | 1/4 | 2,023.99 | 1/4 | 1,664.73 | 1/4 | 1,305.47 | 1/4 | 946.49 | 1/4 | 587.34 | 1/4 | 228.10 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,375.76 | 1/2 | 2,016.50 | 1/2 | 1,657.24 | 1/2 | 1,297.98 | 1/2 | 939.02 | 1/2 | 579.86 | 1/2 | 220.61 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,368.28 | 3/4 | 2,009.02 | 3/4 | 1,649.76 | 3/4 | 1,290.50 | 3/4 | 931.55 | 3/4 | 572.37 | 3/4 | 213.13 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 1 | 2,360.80 | 1 | 2,001.53 | 1 | 1,642.27 | 1 | 1,283.01 | 1 | 924.08 | 1 | 564.89 | 1 | 205.65 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1/4 | 2,353.31 | 1/4 | 1,994.05 | 1/4 | 1,634.79 | 1/4 | 1,275.53 | 1/4 | 916.60 | 1/4 | 557.41 | 1/4 | 198.16 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,345.83 | 1/2 | 1,986.57 | 1/2 | 1,627.30 | 1/2 | 1,268.04 | 1/2 | 909.13 | 1/2 | 549.92 | 1/2 | 190.68 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,338.34 | 3/4 | 1,979.08 | 3/4 | 1,619.82 | 3/4 | 1,260.56 | 3/4 | 901.66 | 3/4 | 542.44 | 3/4 | 183.20 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 2 | 2,330.86 | 2 | 1,971.60 | 2 | 1,612.34 | 2 | 1,253.07 | 2 | 894.18 | 2 | 534.95 | 2 | 175.72 | 2 | 2 | 2 | 2 | 2 | 2 |
| 1/4 | 2,323.37 | 1/4 | 1,964.11 | 1/4 | 1,604.85 | 1/4 | 1,245.59 | 1/4 | 886.70 | 1/4 | 527.47 | 1/4 | 168.25 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,315.89 | 1/2 | 1,956.63 | 1/2 | 1,597.37 | 1/2 | 1,238.11 | 1/2 | 879.22 | 1/2 | 519.98 | 1/2 | 160.77 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,308.40 | 3/4 | 1,949.14 | 3/4 | 1,589.88 | 3/4 | 1,230.62 | 3/4 | 871.75 | 3/4 | 512.50 | 3/4 | 153.30 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 3 | 2,300.92 | 3 | 1,941.66 | 3 | 1,582.40 | 3 | 1,223.14 | 3 | 864.26 | 3 | 505.02 | 3 | 145.83 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1/4 | 2,293.43 | 1/4 | 1,934.17 | 1/4 | 1,574.91 | 1/4 | 1,215.65 | 1/4 | 856.78 | 1/4 | 497.53 | 1/4 | 138.37 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,285.95 | 1/2 | 1,926.69 | 1/2 | 1,567.43 | 1/2 | 1,208.17 | 1/2 | 849.29 | 1/2 | 490.05 | 1/2 | 130.90 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,278.46 | 3/4 | 1,919.20 | 3/4 | 1,559.94 | 3/4 | 1,200.68 | 3/4 | 841.81 | 3/4 | 482.56 | 3/4 | 123.44 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 4 | 2,270.98 | 4 | 1,911.72 | 4 | 1,552.46 | 4 | 1,193.20 | 4 | 834.32 | 4 | 475.08 | 4 | 115.99 | 4 | 4 | 4 | 4 | 4 | 4 |
| 1/4 | 2,263.50 | 1/4 | 1,904.23 | 1/4 | 1,544.97 | 1/4 | 1,185.71 | 1/4 | 826.84 | 1/4 | 467.59 | 1/4 | 108.54 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,256.01 | 1/2 | 1,896.75 | 1/2 | 1,537.49 | 1/2 | 1,178.23 | 1/2 | 819.36 | 1/2 | 460.11 | 1/2 | 101.10 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,248.53 | 3/4 | 1,889.27 | 3/4 | 1,530.00 | 3/4 | 1,170.74 | 3/4 | 811.87 | 3/4 | 452.63 | 3/4 | 93.65 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 5 | 2,241.04 | 5 | 1,881.78 | 5 | 1,522.52 | 5 | 1,163.26 | 5 | 804.39 | 5 | 445.14 | 5 | 86.24 | 5 | 5 | 5 | 5 | 5 | 5 |
| 1/4 | 2,233.56 | 1/4 | 1,874.30 | 1/4 | 1,515.04 | 1/4 | 1,155.77 | 1/4 | 796.90 | 1/4 | 437.66 | 1/4 | 78.82 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,226.07 | 1/2 | 1,866.81 | 1/2 | 1,507.55 | 1/2 | 1,148.29 | 1/2 | 789.42 | 1/2 | 430.17 | 1/2 | 71.40 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,218.59 | 3/4 | 1,859.33 | 3/4 | 1,500.07 | 3/4 | 1,140.81 | 3/4 | 781.93 | 3/4 | 422.69 | 3/4 | 63.99 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 6 | 2,211.10 | 6 | 1,851.84 | 6 | 1,492.58 | 6 | 1,133.33 | 6 | 774.45 | 6 | 415.20 | 6 | 57.03 | 6 | 6 | 6 | 6 | 6 | 6 |
| 1/4 | 2,203.62 | 1/4 | 1,844.36 | 1/4 | 1,485.10 | 1/4 | 1,125.85 | 1/4 | 766.97 | 1/4 | 407.72 | 1/4 | 50.08 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,196.13 | 1/2 | 1,836.87 | 1/2 | 1,477.61 | 1/2 | 1,118.37 | 1/2 | 759.48 | 1/2 | 400.24 | 1/2 | 43.12 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,188.65 | 3/4 | 1,829.39 | 3/4 | 1,470.13 | 3/4 | 1,110.89 | 3/4 | 752.00 | 3/4 | 392.75 | 3/4 | 36.17 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 7 | 2,181.16 | 7 | 1,821.90 | 7 | 1,462.64 | 7 | 1,103.41 | 7 | 744.51 | 7 | 385.27 | 7 | 30.87 | 7 | 7 | 7 | 7 | 7 | 7 |
| 1/4 | 2,173.68 | 1/4 | 1,814.42 | 1/4 | 1,455.16 | 1/4 | 1,095.94 | 1/4 | 737.03 | 1/4 | 377.78 | 1/4 | 25.57 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,166.20 | 1/2 | 1,806.93 | 1/2 | 1,447.67 | 1/2 | 1,088.47 | 1/2 | 729.54 | 1/2 | 370.30 | 1/2 | 20.27 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,158.71 | 3/4 | 1,799.45 | 3/4 | 1,440.19 | 3/4 | 1,081.00 | 3/4 | 722.06 | 3/4 | 362.81 | 3/4 | 14.97 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 8 | 2,151.23 | 8 | 1,791.97 | 8 | 1,432.70 | 8 | 1,073.52 | 8 | 714.58 | 8 | 355.33 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1/4 | 2,143.74 | 1/4 | 1,784.48 | 1/4 | 1,425.22 | 1/4 | 1,066.05 | 1/4 | 707.09 | 1/4 | 347.84 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,136.26 | 1/2 | 1,777.00 | 1/2 | 1,417.74 | 1/2 | 1,058.58 | 1/2 | 699.61 | 1/2 | 340.36 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,128.77 | 3/4 | 1,769.51 | 3/4 | 1,410.25 | 3/4 | 1,051.11 | 3/4 | 692.12 | 3/4 | 332.88 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 9 | 2,121.29 | 9 | 1,762.03 | 9 | 1,402.77 | 9 | 1,043.63 | 9 | 684.64 | 9 | 325.39 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 1/4 | 2,113.80 | 1/4 | 1,754.54 | 1/4 | 1,395.28 | 1/4 | 1,036.16 | 1/4 | 677.15 | 1/4 | 317.91 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,106.32 | 1/2 | 1,747.06 | 1/2 | 1,387.80 | 1/2 | 1,028.69 | 1/2 | 669.67 | 1/2 | 310.42 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,098.83 | 3/4 | 1,739.57 | 3/4 | 1,380.31 | 3/4 | 1,021.22 | 3/4 | 662.19 | 3/4 | 302.94 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 10 | 2,091.35 | 10 | 1,732.09 | 10 | 1,372.83 | 10 | 1,013.74 | 10 | 654.70 | 10 | 295.45 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 1/4 | 2,083.87 | 1/4 | 1,724.60 | 1/4 | 1,365.34 | 1/4 | 1,006.27 | 1/4 | 647.22 | 1/4 | 287.97 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,076.38 | 1/2 | 1,717.12 | 1/2 | 1,357.86 | 1/2 | 998.80 | 1/2 | 639.73 | 1/2 | 280.49 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,068.90 | 3/4 | 1,709.64 | 3/4 | 1,350.37 | 3/4 | 991.33 | 3/4 | 632.25 | 3/4 | 273.00 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| 11 | 2,061.41 | 11 | 1,702.15 | 11 | 1,342.89 | 11 | 983.85 | 11 | 624.76 | 11 | 265.52 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 1/4 | 2,053.93 | 1/4 | 1,694.67 | 1/4 | 1,335.41 | 1/4 | 976.38 | 1/4 | 617.28 | 1/4 | 258.03 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 |
| 1/2 | 2,046.44 | 1/2 | 1,687.18 | 1/2 | 1,327.92 | 1/2 | 968.91 | 1/2 | 609.80 | 1/2 | 250.55 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 3/4 | 2,038.96 | 3/4 | 1,679.70 | 3/4 | 1,320.44 | 3/4 | 961.44 | 3/4 | 602.31 | 3/4 | 243.06 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |

STRAPPED: 12/15/2014 CL
 CALCULATED: 12/15/2014 CL
 PRINTED: 12/15/2014 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2014

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



BARGE "KIRBY 29138"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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 | 4,352.34 | 0 | 4,111.74 | 0 | 3,865.63 | 0 | 3,607.54 | 0 | 3,337.77 | 0 | 2,985.82 | 0 | 2,629.80 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,347.71 | 1/4 | 4,106.74 | 1/4 | 3,860.38 | 1/4 | 3,602.04 | 1/4 | 3,332.07 | 1/4 | 2,978.40 | 1/4 | 2,622.38 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,343.08 | 1/2 | 4,101.74 | 1/2 | 3,855.12 | 1/2 | 3,596.54 | 1/2 | 3,326.37 | 1/2 | 2,970.98 | 1/2 | 2,614.97 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,338.94 | 3/4 | 4,096.72 | 3/4 | 3,849.85 | 3/4 | 3,591.01 | 3/4 | 3,318.95 | 3/4 | 2,963.57 | 3/4 | 2,607.55 |
| 1 | | 1 | | 1 | | 1 | 4,334.79 | 1 | 4,091.70 | 1 | 3,844.57 | 1 | 3,585.49 | 1 | 3,311.53 | 1 | 2,956.15 | 1 | 2,600.13 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,330.64 | 1/4 | 4,086.68 | 1/4 | 3,839.30 | 1/4 | 3,579.96 | 1/4 | 3,304.11 | 1/4 | 2,948.73 | 1/4 | 2,592.72 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,326.50 | 1/2 | 4,081.66 | 1/2 | 3,834.03 | 1/2 | 3,574.43 | 1/2 | 3,296.69 | 1/2 | 2,941.31 | 1/2 | 2,585.30 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,321.15 | 3/4 | 4,076.61 | 3/4 | 3,828.74 | 3/4 | 3,568.89 | 3/4 | 3,289.27 | 3/4 | 2,933.90 | 3/4 | 2,577.88 |
| 2 | | 2 | | 2 | | 2 | 4,315.80 | 2 | 4,071.57 | 2 | 3,823.45 | 2 | 3,563.35 | 2 | 3,281.85 | 2 | 2,926.48 | 2 | 2,570.46 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,310.45 | 1/4 | 4,066.52 | 1/4 | 3,818.15 | 1/4 | 3,557.81 | 1/4 | 3,274.43 | 1/4 | 2,919.06 | 1/4 | 2,563.05 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,305.10 | 1/2 | 4,061.48 | 1/2 | 3,812.86 | 1/2 | 3,552.26 | 1/2 | 3,267.01 | 1/2 | 2,911.65 | 1/2 | 2,555.63 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,299.40 | 3/4 | 4,056.42 | 3/4 | 3,807.55 | 3/4 | 3,546.70 | 3/4 | 3,259.59 | 3/4 | 2,904.23 | 3/4 | 2,548.21 |
| 3 | | 3 | | 3 | | 3 | 4,293.70 | 3 | 4,051.35 | 3 | 3,802.23 | 3 | 3,541.14 | 3 | 3,252.17 | 3 | 2,896.81 | 3 | 2,540.80 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,288.00 | 1/4 | 4,046.29 | 1/4 | 3,796.92 | 1/4 | 3,535.58 | 1/4 | 3,244.75 | 1/4 | 2,889.40 | 1/4 | 2,533.38 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,282.31 | 1/2 | 4,041.23 | 1/2 | 3,791.60 | 1/2 | 3,530.01 | 1/2 | 3,237.33 | 1/2 | 2,881.98 | 1/2 | 2,525.96 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,276.61 | 3/4 | 4,036.14 | 3/4 | 3,786.27 | 3/4 | 3,524.43 | 3/4 | 3,229.91 | 3/4 | 2,874.56 | 3/4 | 2,518.55 |
| 4 | | 4 | | 4 | | 4 | 4,270.91 | 4 | 4,031.05 | 4 | 3,780.94 | 4 | 3,518.84 | 4 | 3,222.49 | 4 | 2,867.14 | 4 | 2,511.13 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,265.21 | 1/4 | 4,025.97 | 1/4 | 3,775.60 | 1/4 | 3,513.26 | 1/4 | 3,215.07 | 1/4 | 2,859.73 | 1/4 | 2,503.71 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,259.52 | 1/2 | 4,020.88 | 1/2 | 3,770.27 | 1/2 | 3,507.67 | 1/2 | 3,207.65 | 1/2 | 2,852.31 | 1/2 | 2,496.29 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,254.66 | 3/4 | 4,015.78 | 3/4 | 3,764.91 | 3/4 | 3,502.07 | 3/4 | 3,200.26 | 3/4 | 2,844.89 | 3/4 | 2,488.88 |
| 5 | | 5 | | 5 | | 5 | 4,249.80 | 5 | 4,010.67 | 5 | 3,759.55 | 5 | 3,496.47 | 5 | 3,192.87 | 5 | 2,837.48 | 5 | 2,481.46 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,244.94 | 1/4 | 4,005.57 | 1/4 | 3,754.20 | 1/4 | 3,490.86 | 1/4 | 3,185.47 | 1/4 | 2,830.06 | 1/4 | 2,474.04 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,240.08 | 1/2 | 4,000.46 | 1/2 | 3,748.84 | 1/2 | 3,485.26 | 1/2 | 3,178.08 | 1/2 | 2,822.64 | 1/2 | 2,466.63 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,235.21 | 3/4 | 3,995.34 | 3/4 | 3,743.47 | 3/4 | 3,479.63 | 3/4 | 3,170.69 | 3/4 | 2,815.23 | 3/4 | 2,459.21 |
| 6 | | 6 | | 6 | | 6 | 4,230.33 | 6 | 3,990.21 | 6 | 3,738.09 | 6 | 3,474.01 | 6 | 3,163.29 | 6 | 2,807.81 | 6 | 2,451.79 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,225.46 | 1/4 | 3,985.08 | 1/4 | 3,732.72 | 1/4 | 3,468.38 | 1/4 | 3,155.90 | 1/4 | 2,800.39 | 1/4 | 2,444.38 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,220.58 | 1/2 | 3,979.95 | 1/2 | 3,727.34 | 1/2 | 3,462.75 | 1/2 | 3,148.51 | 1/2 | 2,792.97 | 1/2 | 2,436.96 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,215.68 | 3/4 | 3,974.80 | 3/4 | 3,721.94 | 3/4 | 3,457.11 | 3/4 | 3,141.12 | 3/4 | 2,785.56 | 3/4 | 2,429.54 |
| 7 | | 7 | | 7 | | 7 | 4,210.78 | 7 | 3,969.66 | 7 | 3,716.54 | 7 | 3,451.46 | 7 | 3,133.72 | 7 | 2,778.14 | 7 | 2,422.12 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,205.88 | 1/4 | 3,964.51 | 1/4 | 3,711.15 | 1/4 | 3,445.81 | 1/4 | 3,126.33 | 1/4 | 2,770.72 | 1/4 | 2,414.71 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,200.98 | 1/2 | 3,959.36 | 1/2 | 3,705.75 | 1/2 | 3,440.17 | 1/2 | 3,118.94 | 1/2 | 2,763.31 | 1/2 | 2,407.29 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,196.06 | 3/4 | 3,954.19 | 3/4 | 3,700.33 | 3/4 | 3,434.50 | 3/4 | 3,111.54 | 3/4 | 2,755.89 | 3/4 | 2,399.87 |
| 8 | | 8 | | 8 | | 8 | 4,191.14 | 8 | 3,949.02 | 8 | 3,694.91 | 8 | 3,428.83 | 8 | 3,104.15 | 8 | 2,748.47 | 8 | 2,392.46 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,186.22 | 1/4 | 3,943.85 | 1/4 | 3,689.50 | 1/4 | 3,423.16 | 1/4 | 3,096.76 | 1/4 | 2,741.06 | 1/4 | 2,385.04 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,181.31 | 1/2 | 3,938.68 | 1/2 | 3,684.08 | 1/2 | 3,417.49 | 1/2 | 3,089.37 | 1/2 | 2,733.64 | 1/2 | 2,377.62 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,176.36 | 3/4 | 3,933.49 | 3/4 | 3,678.64 | 3/4 | 3,411.80 | 3/4 | 3,081.97 | 3/4 | 2,726.22 | 3/4 | 2,370.20 |
| 9 | | 9 | | 9 | | 9 | 4,171.42 | 9 | 3,928.30 | 9 | 3,673.20 | 9 | 3,406.12 | 9 | 3,074.58 | 9 | 2,718.80 | 9 | 2,362.79 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,166.48 | 1/4 | 3,923.11 | 1/4 | 3,667.76 | 1/4 | 3,400.43 | 1/4 | 3,067.19 | 1/4 | 2,711.39 | 1/4 | 2,355.37 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,161.53 | 1/2 | 3,917.92 | 1/2 | 3,662.32 | 1/2 | 3,394.74 | 1/2 | 3,059.79 | 1/2 | 2,703.97 | 1/2 | 2,347.95 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,156.57 | 3/4 | 3,912.71 | 3/4 | 3,656.86 | 3/4 | 3,389.04 | 3/4 | 3,052.40 | 3/4 | 2,696.55 | 3/4 | 2,340.53 |
| 10 | | 10 | | 10 | | 10 | 4,151.61 | 10 | 3,907.50 | 10 | 3,651.40 | 10 | 3,383.35 | 10 | 3,045.01 | 10 | 2,689.14 | 10 | 2,333.12 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,146.65 | 1/4 | 3,902.28 | 1/4 | 3,645.94 | 1/4 | 3,377.65 | 1/4 | 3,037.61 | 1/4 | 2,681.72 | 1/4 | 2,325.70 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,141.69 | 1/2 | 3,897.07 | 1/2 | 3,640.48 | 1/2 | 3,371.95 | 1/2 | 3,030.22 | 1/2 | 2,674.30 | 1/2 | 2,318.28 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,136.71 | 3/4 | 3,891.84 | 3/4 | 3,635.00 | 3/4 | 3,366.25 | 3/4 | 3,022.83 | 3/4 | 2,666.89 | 3/4 | 2,310.86 |
| 11 | | 11 | | 11 | | 11 | 4,131.72 | 11 | 3,886.61 | 11 | 3,629.51 | 11 | 3,360.56 | 11 | 3,015.44 | 11 | 2,659.47 | 11 | 2,303.45 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | 4,126.73 | 1/4 | 3,881.38 | 1/4 | 3,624.03 | 1/4 | 3,354.86 | 1/4 | 3,008.04 | 1/4 | 2,652.05 | 1/4 | 2,296.03 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | 4,361.60 | 1/2 | 4,121.75 | 1/2 | 3,876.15 | 1/2 | 3,618.54 | 1/2 | 3,000.65 | 1/2 | 2,644.63 | 1/2 | 2,288.61 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | 4,356.97 | 3/4 | 4,116.75 | 3/4 | 3,870.89 | 3/4 | 3,613.04 | 3/4 | 2,993.23 | 3/4 | 2,637.22 | 3/4 | 2,281.19 |

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'-09" OFF CENTERLINE AND 51'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29138"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

| 10 FT. | | 11 FT. | | 12 FT. | | 13 FT. | | 14 FT. | | 15 FT. | | 16 FT. | | 17 FT. | | 18 FT. | | 19 FT. | |
|--------|----------|--------|----------|--------|----------|--------|----------|--------|--------|--------|--------|--------|--------|--------|--|--------|--|--------|--|
| 0 | 2,273.78 | 0 | 1,917.31 | 0 | 1,561.81 | 0 | 1,205.68 | 0 | 861.84 | 0 | 505.28 | 0 | 148.50 | 0 | | 0 | | 0 | |
| 1/4 | 2,266.36 | 1/4 | 1,909.88 | 1/4 | 1,554.40 | 1/4 | 1,198.52 | 1/4 | 854.43 | 1/4 | 497.85 | 1/4 | 141.07 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,258.94 | 1/2 | 1,902.45 | 1/2 | 1,547.00 | 1/2 | 1,191.36 | 1/2 | 847.02 | 1/2 | 490.42 | 1/2 | 133.64 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,251.52 | 3/4 | 1,895.05 | 3/4 | 1,539.57 | 3/4 | 1,184.19 | 3/4 | 839.61 | 3/4 | 482.98 | 3/4 | 126.20 | 3/4 | | 3/4 | | 3/4 | |
| 1 | 2,244.11 | 1 | 1,887.64 | 1 | 1,532.13 | 1 | 1,177.03 | 1 | 832.20 | 1 | 475.55 | 1 | 118.77 | 1 | | 1 | | 1 | |
| 1/4 | 2,236.69 | 1/4 | 1,880.24 | 1/4 | 1,524.70 | 1/4 | 1,169.86 | 1/4 | 824.79 | 1/4 | 468.12 | 1/4 | 111.34 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,229.27 | 1/2 | 1,872.83 | 1/2 | 1,517.27 | 1/2 | 1,162.70 | 1/2 | 817.38 | 1/2 | 460.68 | 1/2 | 103.91 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,221.85 | 3/4 | 1,865.42 | 3/4 | 1,509.84 | 3/4 | 1,155.54 | 3/4 | 809.97 | 3/4 | 453.25 | 3/4 | 96.79 | 3/4 | | 3/4 | | 3/4 | |
| 2 | 2,214.44 | 2 | 1,858.02 | 2 | 1,502.41 | 2 | 1,148.37 | 2 | 802.55 | 2 | 445.82 | 2 | 89.67 | 2 | | 2 | | 2 | |
| 1/4 | 2,207.02 | 1/4 | 1,850.61 | 1/4 | 1,494.98 | 1/4 | 1,141.21 | 1/4 | 795.14 | 1/4 | 438.39 | 1/4 | 82.55 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,199.60 | 1/2 | 1,843.21 | 1/2 | 1,487.54 | 1/2 | 1,134.04 | 1/2 | 787.73 | 1/2 | 430.95 | 1/2 | 75.44 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,192.18 | 3/4 | 1,835.80 | 3/4 | 1,480.11 | 3/4 | 1,126.88 | 3/4 | 780.30 | 3/4 | 423.52 | 3/4 | 69.26 | 3/4 | | 3/4 | | 3/4 | |
| 3 | 2,184.77 | 3 | 1,828.40 | 3 | 1,472.68 | 3 | 1,119.72 | 3 | 772.87 | 3 | 416.09 | 3 | 63.08 | 3 | | 3 | | 3 | |
| 1/4 | 2,177.35 | 1/4 | 1,820.99 | 1/4 | 1,465.25 | 1/4 | 1,112.55 | 1/4 | 765.43 | 1/4 | 408.65 | 1/4 | 56.90 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,169.93 | 1/2 | 1,813.59 | 1/2 | 1,457.82 | 1/2 | 1,105.39 | 1/2 | 758.00 | 1/2 | 401.22 | 1/2 | 50.72 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,162.51 | 3/4 | 1,806.18 | 3/4 | 1,450.39 | 3/4 | 1,098.22 | 3/4 | 750.57 | 3/4 | 393.79 | 3/4 | 45.80 | 3/4 | | 3/4 | | 3/4 | |
| 4 | 2,155.10 | 4 | 1,798.78 | 4 | 1,442.96 | 4 | 1,091.06 | 4 | 743.13 | 4 | 386.36 | 4 | 40.88 | 4 | | 4 | | 4 | |
| 1/4 | 2,147.68 | 1/4 | 1,791.37 | 1/4 | 1,435.52 | 1/4 | 1,083.90 | 1/4 | 735.70 | 1/4 | 378.92 | 1/4 | 35.95 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,140.26 | 1/2 | 1,783.97 | 1/2 | 1,428.09 | 1/2 | 1,076.73 | 1/2 | 728.27 | 1/2 | 371.49 | 1/2 | 31.03 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,132.83 | 3/4 | 1,776.56 | 3/4 | 1,420.66 | 3/4 | 1,069.58 | 3/4 | 720.84 | 3/4 | 364.06 | 3/4 | 27.37 | 3/4 | | 3/4 | | 3/4 | |
| 5 | 2,125.40 | 5 | 1,769.16 | 5 | 1,413.23 | 5 | 1,062.43 | 5 | 713.40 | 5 | 356.62 | 5 | 23.70 | 5 | | 5 | | 5 | |
| 1/4 | 2,117.97 | 1/4 | 1,761.75 | 1/4 | 1,405.80 | 1/4 | 1,055.28 | 1/4 | 705.97 | 1/4 | 349.19 | 1/4 | 20.04 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,110.54 | 1/2 | 1,754.35 | 1/2 | 1,398.37 | 1/2 | 1,048.13 | 1/2 | 698.54 | 1/2 | 341.76 | 1/2 | 16.38 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,103.10 | 3/4 | 1,746.94 | 3/4 | 1,390.94 | 3/4 | 1,040.98 | 3/4 | 691.10 | 3/4 | 334.33 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 6 | 2,095.67 | 6 | 1,739.53 | 6 | 1,383.50 | 6 | 1,033.83 | 6 | 683.67 | 6 | 326.89 | 6 | | 6 | | 6 | | 6 | |
| 1/4 | 2,088.24 | 1/4 | 1,732.13 | 1/4 | 1,376.07 | 1/4 | 1,026.68 | 1/4 | 676.24 | 1/4 | 319.46 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,080.81 | 1/2 | 1,724.72 | 1/2 | 1,368.64 | 1/2 | 1,019.53 | 1/2 | 668.81 | 1/2 | 312.03 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,073.38 | 3/4 | 1,717.32 | 3/4 | 1,361.21 | 3/4 | 1,012.39 | 3/4 | 661.37 | 3/4 | 304.59 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 7 | 2,065.95 | 7 | 1,709.91 | 7 | 1,353.78 | 7 | 1,005.24 | 7 | 653.94 | 7 | 297.16 | 7 | | 7 | | 7 | | 7 | |
| 1/4 | 2,058.51 | 1/4 | 1,702.51 | 1/4 | 1,346.35 | 1/4 | 998.10 | 1/4 | 646.51 | 1/4 | 289.73 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,051.08 | 1/2 | 1,695.10 | 1/2 | 1,338.91 | 1/2 | 990.95 | 1/2 | 639.07 | 1/2 | 282.29 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,043.65 | 3/4 | 1,687.70 | 3/4 | 1,331.48 | 3/4 | 983.81 | 3/4 | 631.64 | 3/4 | 274.86 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 8 | 2,036.22 | 8 | 1,680.29 | 8 | 1,324.05 | 8 | 976.66 | 8 | 624.21 | 8 | 267.43 | 8 | | 8 | | 8 | | 8 | |
| 1/4 | 2,028.79 | 1/4 | 1,672.89 | 1/4 | 1,316.62 | 1/4 | 969.52 | 1/4 | 616.78 | 1/4 | 260.00 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 2,021.36 | 1/2 | 1,665.48 | 1/2 | 1,309.19 | 1/2 | 962.38 | 1/2 | 609.34 | 1/2 | 252.56 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 2,013.93 | 3/4 | 1,658.08 | 3/4 | 1,301.76 | 3/4 | 955.24 | 3/4 | 601.91 | 3/4 | 245.13 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 9 | 2,006.49 | 9 | 1,650.67 | 9 | 1,294.33 | 9 | 948.09 | 9 | 594.48 | 9 | 237.70 | 9 | | 9 | | 9 | | 9 | |
| 1/4 | 1,999.06 | 1/4 | 1,643.27 | 1/4 | 1,286.89 | 1/4 | 940.95 | 1/4 | 587.04 | 1/4 | 230.26 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,991.63 | 1/2 | 1,635.86 | 1/2 | 1,279.46 | 1/2 | 933.81 | 1/2 | 579.61 | 1/2 | 222.83 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,984.20 | 3/4 | 1,628.46 | 3/4 | 1,272.03 | 3/4 | 926.67 | 3/4 | 572.18 | 3/4 | 215.40 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 10 | 1,976.77 | 10 | 1,621.05 | 10 | 1,264.60 | 10 | 919.52 | 10 | 564.74 | 10 | 207.97 | 10 | | 10 | | 10 | | 10 | |
| 1/4 | 1,969.34 | 1/4 | 1,613.64 | 1/4 | 1,257.17 | 1/4 | 912.38 | 1/4 | 557.31 | 1/4 | 200.53 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,961.90 | 1/2 | 1,606.24 | 1/2 | 1,249.74 | 1/2 | 905.24 | 1/2 | 549.88 | 1/2 | 193.10 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,954.47 | 3/4 | 1,598.83 | 3/4 | 1,242.31 | 3/4 | 898.10 | 3/4 | 542.45 | 3/4 | 185.67 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,947.04 | 11 | 1,591.43 | 11 | 1,234.87 | 11 | 890.95 | 11 | 535.01 | 11 | 178.23 | 11 | | 11 | | 11 | | 11 | |
| 1/4 | 1,939.61 | 1/4 | 1,584.02 | 1/4 | 1,227.44 | 1/4 | 883.81 | 1/4 | 527.58 | 1/4 | 170.80 | 1/4 | | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,932.18 | 1/2 | 1,576.62 | 1/2 | 1,220.01 | 1/2 | 876.67 | 1/2 | 520.15 | 1/2 | 163.37 | 1/2 | | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,924.75 | 3/4 | 1,569.21 | 3/4 | 1,212.55 | 3/4 | 869.26 | 3/4 | 512.71 | 3/4 | 155.94 | 3/4 | | 3/4 | | 3/4 | | 3/4 | |

STRAPPED: 12/15/2014 CL
 CALCULATED: 12/15/2014 CL
 PRINTED: 12/15/2014 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 12/2014

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 29138"

3 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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 | 4,380.24 | 0 | 4,138.48 | 0 | 3,891.22 | 0 | 3,631.96 | 0 | 3,361.00 | 0 | 3,007.10 | 0 | 2,649.76 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,375.59 | 1/4 | 4,133.46 | 1/4 | 3,885.94 | 1/4 | 3,626.43 | 1/4 | 3,355.28 | 1/4 | 2,999.66 | 1/4 | 2,642.31 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,370.93 | 1/2 | 4,128.43 | 1/2 | 3,880.66 | 1/2 | 3,620.90 | 1/2 | 3,349.56 | 1/2 | 2,992.21 | 1/2 | 2,634.87 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,366.76 | 3/4 | 4,123.39 | 3/4 | 3,875.36 | 3/4 | 3,615.35 | 3/4 | 3,342.12 | 3/4 | 2,984.77 | 3/4 | 2,627.42 | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4,362.59 | 1 | 4,118.34 | 1 | 3,870.06 | 1 | 3,609.80 | 1 | 3,334.67 | 1 | 2,977.32 | 1 | 2,619.98 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,358.42 | 1/4 | 4,113.30 | 1/4 | 3,864.76 | 1/4 | 3,604.25 | 1/4 | 3,327.23 | 1/4 | 2,969.88 | 1/4 | 2,612.53 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,354.25 | 1/2 | 4,108.25 | 1/2 | 3,859.47 | 1/2 | 3,598.70 | 1/2 | 3,319.78 | 1/2 | 2,962.44 | 1/2 | 2,605.09 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,348.88 | 3/4 | 4,103.18 | 3/4 | 3,854.15 | 3/4 | 3,593.13 | 3/4 | 3,312.34 | 3/4 | 2,954.99 | 3/4 | 2,597.65 | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4,343.50 | 2 | 4,098.12 | 2 | 3,848.84 | 2 | 3,587.57 | 2 | 3,304.89 | 2 | 2,947.55 | 2 | 2,590.20 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,338.13 | 1/4 | 4,093.05 | 1/4 | 3,843.52 | 1/4 | 3,582.00 | 1/4 | 3,297.45 | 1/4 | 2,940.10 | 1/4 | 2,582.76 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,332.75 | 1/2 | 4,087.98 | 1/2 | 3,838.20 | 1/2 | 3,576.43 | 1/2 | 3,290.00 | 1/2 | 2,932.66 | 1/2 | 2,575.31 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,327.03 | 3/4 | 4,082.89 | 3/4 | 3,832.87 | 3/4 | 3,570.84 | 3/4 | 3,282.56 | 3/4 | 2,925.21 | 3/4 | 2,567.87 | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4,321.31 | 3 | 4,077.81 | 3 | 3,827.53 | 3 | 3,565.26 | 3 | 3,275.11 | 3 | 2,917.77 | 3 | 2,560.42 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,315.59 | 1/4 | 4,072.72 | 1/4 | 3,822.19 | 1/4 | 3,559.67 | 1/4 | 3,267.67 | 1/4 | 2,910.32 | 1/4 | 2,552.98 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,309.87 | 1/2 | 4,067.63 | 1/2 | 3,816.85 | 1/2 | 3,554.08 | 1/2 | 3,260.22 | 1/2 | 2,902.88 | 1/2 | 2,545.53 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,304.15 | 3/4 | 4,062.52 | 3/4 | 3,811.49 | 3/4 | 3,548.47 | 3/4 | 3,252.78 | 3/4 | 2,895.43 | 3/4 | 2,538.09 | | |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4,298.42 | 4 | 4,057.41 | 4 | 3,806.13 | 4 | 3,542.87 | 4 | 3,245.33 | 4 | 2,887.99 | 4 | 2,530.64 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,292.70 | 1/4 | 4,052.30 | 1/4 | 3,800.78 | 1/4 | 3,537.26 | 1/4 | 3,237.89 | 1/4 | 2,880.54 | 1/4 | 2,523.20 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,286.98 | 1/2 | 4,047.19 | 1/2 | 3,795.42 | 1/2 | 3,531.65 | 1/2 | 3,230.44 | 1/2 | 2,873.10 | 1/2 | 2,515.75 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,282.10 | 3/4 | 4,042.06 | 3/4 | 3,790.04 | 3/4 | 3,526.02 | 3/4 | 3,223.00 | 3/4 | 2,865.65 | 3/4 | 2,508.31 | | |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4,277.22 | 5 | 4,036.93 | 5 | 3,784.66 | 5 | 3,520.39 | 5 | 3,215.56 | 5 | 2,858.21 | 5 | 2,500.86 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,272.34 | 1/4 | 4,031.80 | 1/4 | 3,779.28 | 1/4 | 3,514.76 | 1/4 | 3,208.11 | 1/4 | 2,850.76 | 1/4 | 2,493.42 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,267.45 | 1/2 | 4,026.67 | 1/2 | 3,773.89 | 1/2 | 3,509.13 | 1/2 | 3,200.67 | 1/2 | 2,843.32 | 1/2 | 2,485.97 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,262.55 | 3/4 | 4,021.52 | 3/4 | 3,768.49 | 3/4 | 3,503.48 | 3/4 | 3,193.22 | 3/4 | 2,835.88 | 3/4 | 2,478.53 | | |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 4,257.65 | 6 | 4,016.37 | 6 | 3,763.09 | 6 | 3,497.83 | 6 | 3,185.78 | 6 | 2,828.43 | 6 | 2,471.09 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,252.75 | 1/4 | 4,011.22 | 1/4 | 3,757.70 | 1/4 | 3,492.18 | 1/4 | 3,178.33 | 1/4 | 2,820.99 | 1/4 | 2,463.64 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,247.85 | 1/2 | 4,006.06 | 1/2 | 3,752.30 | 1/2 | 3,486.53 | 1/2 | 3,170.89 | 1/2 | 2,813.54 | 1/2 | 2,456.20 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,242.93 | 3/4 | 4,000.89 | 3/4 | 3,746.87 | 3/4 | 3,480.86 | 3/4 | 3,163.44 | 3/4 | 2,806.10 | 3/4 | 2,448.75 | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4,238.00 | 7 | 3,995.72 | 7 | 3,741.45 | 7 | 3,475.19 | 7 | 3,156.00 | 7 | 2,798.65 | 7 | 2,441.31 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,233.08 | 1/4 | 3,990.55 | 1/4 | 3,736.03 | 1/4 | 3,469.51 | 1/4 | 3,148.55 | 1/4 | 2,791.21 | 1/4 | 2,433.86 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,228.15 | 1/2 | 3,985.38 | 1/2 | 3,730.60 | 1/2 | 3,463.84 | 1/2 | 3,141.11 | 1/2 | 2,783.76 | 1/2 | 2,426.42 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,223.21 | 3/4 | 3,980.19 | 3/4 | 3,725.16 | 3/4 | 3,458.15 | 3/4 | 3,133.66 | 3/4 | 2,776.32 | 3/4 | 2,418.97 | | |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 4,218.27 | 8 | 3,974.99 | 8 | 3,719.72 | 8 | 3,452.46 | 8 | 3,126.22 | 8 | 2,768.87 | 8 | 2,411.53 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,213.33 | 1/4 | 3,969.80 | 1/4 | 3,714.28 | 1/4 | 3,446.76 | 1/4 | 3,118.77 | 1/4 | 2,761.43 | 1/4 | 2,404.08 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,208.38 | 1/2 | 3,964.60 | 1/2 | 3,708.84 | 1/2 | 3,441.07 | 1/2 | 3,111.33 | 1/2 | 2,753.98 | 1/2 | 2,396.64 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,203.42 | 3/4 | 3,959.39 | 3/4 | 3,703.37 | 3/4 | 3,435.36 | 3/4 | 3,103.88 | 3/4 | 2,746.54 | 3/4 | 2,389.19 | | |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 4,198.45 | 9 | 3,954.17 | 9 | 3,697.91 | 9 | 3,429.65 | 9 | 3,096.44 | 9 | 2,739.09 | 9 | 2,381.75 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,193.48 | 1/4 | 3,948.96 | 1/4 | 3,692.44 | 1/4 | 3,423.93 | 1/4 | 3,089.00 | 1/4 | 2,731.65 | 1/4 | 2,374.30 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,188.51 | 1/2 | 3,943.75 | 1/2 | 3,686.97 | 1/2 | 3,418.22 | 1/2 | 3,081.55 | 1/2 | 2,724.21 | 1/2 | 2,366.86 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,183.53 | 3/4 | 3,938.51 | 3/4 | 3,681.49 | 3/4 | 3,412.50 | 3/4 | 3,074.11 | 3/4 | 2,716.76 | 3/4 | 2,359.41 | | |
| 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4,178.55 | 10 | 3,933.27 | 10 | 3,676.01 | 10 | 3,406.78 | 10 | 3,066.66 | 10 | 2,709.32 | 10 | 2,351.97 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,173.56 | 1/4 | 3,928.03 | 1/4 | 3,670.52 | 1/4 | 3,401.06 | 1/4 | 3,059.22 | 1/4 | 2,701.87 | 1/4 | 2,344.53 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,168.58 | 1/2 | 3,922.80 | 1/2 | 3,665.04 | 1/2 | 3,395.33 | 1/2 | 3,051.77 | 1/2 | 2,694.43 | 1/2 | 2,337.08 | | |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,163.57 | 3/4 | 3,917.54 | 3/4 | 3,659.53 | 3/4 | 3,389.61 | 3/4 | 3,044.33 | 3/4 | 2,686.98 | 3/4 | 2,329.64 | | |
| 11 | 11 | 11 | 11 | 11 | 11 | 11 | 4,158.56 | 11 | 3,912.29 | 11 | 3,654.02 | 11 | 3,383.89 | 11 | 3,036.88 | 11 | 2,679.54 | 11 | 2,322.19 | | |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 4,153.55 | 1/4 | 3,907.03 | 1/4 | 3,648.52 | 1/4 | 3,378.17 | 1/4 | 3,029.44 | 1/4 | 2,672.09 | 1/4 | 2,314.75 | | |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 4,389.54 | 1/2 | 4,148.54 | 1/2 | 3,901.78 | 1/2 | 3,643.01 | 1/2 | 3,372.45 | 1/2 | 3,021.99 | 1/2 | 2,664.65 | 1/2 | 2,307.30 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 4,384.89 | 3/4 | 4,143.51 | 3/4 | 3,896.50 | 3/4 | 3,637.48 | 3/4 | 3,366.72 | 3/4 | 3,014.55 | 3/4 | 2,657.20 | 3/4 | 2,299.86 |

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'-09" OFF CENTERLINE AND 51'-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 29138"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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 | 2,292.41 | 0 | 1,935.07 | 0 | 1,577.72 | 0 | 1,220.38 | 0 | 863.30 | 0 | 506.08 | 0 | 148.75 | 0 | | 0 | | 0 | |
| 1/4 | 2,284.97 | 1/4 | 1,927.62 | 1/4 | 1,570.28 | 1/4 | 1,212.93 | 1/4 | 855.87 | 1/4 | 498.64 | 1/4 | 141.30 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,277.52 | 1/2 | 1,920.18 | 1/2 | 1,562.83 | 1/2 | 1,205.49 | 1/2 | 848.43 | 1/2 | 491.19 | 1/2 | 133.86 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,270.08 | 3/4 | 1,912.73 | 3/4 | 1,555.39 | 3/4 | 1,198.04 | 3/4 | 841.00 | 3/4 | 483.75 | 3/4 | 126.41 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 1 | 2,262.63 | 1 | 1,905.29 | 1 | 1,547.94 | 1 | 1,190.60 | 1 | 833.57 | 1 | 476.30 | 1 | 118.97 | 1 | 1 | | 1 | | 1 |
| 1/4 | 2,255.19 | 1/4 | 1,897.84 | 1/4 | 1,540.50 | 1/4 | 1,183.15 | 1/4 | 826.14 | 1/4 | 468.86 | 1/4 | 111.53 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,247.74 | 1/2 | 1,890.40 | 1/2 | 1,533.05 | 1/2 | 1,175.71 | 1/2 | 818.70 | 1/2 | 461.42 | 1/2 | 104.08 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,240.30 | 3/4 | 1,882.95 | 3/4 | 1,525.61 | 3/4 | 1,168.26 | 3/4 | 811.27 | 3/4 | 453.97 | 3/4 | 96.95 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 2 | 2,232.85 | 2 | 1,875.51 | 2 | 1,518.16 | 2 | 1,160.82 | 2 | 803.84 | 2 | 446.53 | 2 | 89.82 | 2 | 2 | | 2 | | 2 |
| 1/4 | 2,225.41 | 1/4 | 1,868.06 | 1/4 | 1,510.72 | 1/4 | 1,153.37 | 1/4 | 796.41 | 1/4 | 439.08 | 1/4 | 82.69 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,217.97 | 1/2 | 1,860.62 | 1/2 | 1,503.27 | 1/2 | 1,145.93 | 1/2 | 788.97 | 1/2 | 431.64 | 1/2 | 75.56 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,210.52 | 3/4 | 1,853.18 | 3/4 | 1,495.83 | 3/4 | 1,138.48 | 3/4 | 781.53 | 3/4 | 424.19 | 3/4 | 69.37 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 3 | 2,203.08 | 3 | 1,845.73 | 3 | 1,488.38 | 3 | 1,131.04 | 3 | 774.08 | 3 | 416.75 | 3 | 63.18 | 3 | 3 | | 3 | | 3 |
| 1/4 | 2,195.63 | 1/4 | 1,838.29 | 1/4 | 1,480.94 | 1/4 | 1,123.59 | 1/4 | 766.64 | 1/4 | 409.30 | 1/4 | 56.99 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,188.19 | 1/2 | 1,830.84 | 1/2 | 1,473.50 | 1/2 | 1,116.15 | 1/2 | 759.20 | 1/2 | 401.86 | 1/2 | 50.80 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,180.74 | 3/4 | 1,823.40 | 3/4 | 1,466.05 | 3/4 | 1,108.71 | 3/4 | 751.75 | 3/4 | 394.41 | 3/4 | 45.87 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 4 | 2,173.30 | 4 | 1,815.95 | 4 | 1,458.61 | 4 | 1,101.26 | 4 | 744.31 | 4 | 386.97 | 4 | 40.93 | 4 | 4 | | 4 | | 4 |
| 1/4 | 2,165.85 | 1/4 | 1,808.51 | 1/4 | 1,451.16 | 1/4 | 1,093.82 | 1/4 | 736.86 | 1/4 | 379.53 | 1/4 | 36.00 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,158.41 | 1/2 | 1,801.06 | 1/2 | 1,443.72 | 1/2 | 1,086.37 | 1/2 | 729.42 | 1/2 | 372.08 | 1/2 | 31.06 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,150.96 | 3/4 | 1,793.62 | 3/4 | 1,436.27 | 3/4 | 1,078.93 | 3/4 | 721.97 | 3/4 | 364.64 | 3/4 | 27.39 | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 5 | 2,143.52 | 5 | 1,786.17 | 5 | 1,428.83 | 5 | 1,071.48 | 5 | 714.53 | 5 | 357.19 | 5 | 23.72 | 5 | 5 | | 5 | | 5 |
| 1/4 | 2,136.07 | 1/4 | 1,778.73 | 1/4 | 1,421.38 | 1/4 | 1,064.04 | 1/4 | 707.08 | 1/4 | 349.75 | 1/4 | 20.05 | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,128.63 | 1/2 | 1,771.28 | 1/2 | 1,413.94 | 1/2 | 1,056.59 | 1/2 | 699.64 | 1/2 | 342.30 | 1/2 | 16.38 | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,121.18 | 3/4 | 1,763.84 | 3/4 | 1,406.49 | 3/4 | 1,049.15 | 3/4 | 692.19 | 3/4 | 334.86 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 6 | 2,113.74 | 6 | 1,756.39 | 6 | 1,399.05 | 6 | 1,041.70 | 6 | 684.75 | 6 | 327.41 | 6 | | 6 | 6 | | 6 | | 6 |
| 1/4 | 2,106.29 | 1/4 | 1,748.95 | 1/4 | 1,391.60 | 1/4 | 1,034.26 | 1/4 | 677.31 | 1/4 | 319.97 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,098.85 | 1/2 | 1,741.50 | 1/2 | 1,384.16 | 1/2 | 1,026.81 | 1/2 | 669.86 | 1/2 | 312.53 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,091.41 | 3/4 | 1,734.06 | 3/4 | 1,376.71 | 3/4 | 1,019.38 | 3/4 | 662.42 | 3/4 | 305.08 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 7 | 2,083.96 | 7 | 1,726.62 | 7 | 1,369.27 | 7 | 1,011.95 | 7 | 654.97 | 7 | 297.64 | 7 | | 7 | 7 | | 7 | | 7 |
| 1/4 | 2,076.52 | 1/4 | 1,719.17 | 1/4 | 1,361.82 | 1/4 | 1,004.52 | 1/4 | 647.53 | 1/4 | 290.19 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,069.07 | 1/2 | 1,711.73 | 1/2 | 1,354.38 | 1/2 | 997.08 | 1/2 | 640.08 | 1/2 | 282.75 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,061.63 | 3/4 | 1,704.28 | 3/4 | 1,346.94 | 3/4 | 989.65 | 3/4 | 632.64 | 3/4 | 275.30 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 8 | 2,054.18 | 8 | 1,696.84 | 8 | 1,339.49 | 8 | 982.22 | 8 | 625.19 | 8 | 267.86 | 8 | | 8 | 8 | | 8 | | 8 |
| 1/4 | 2,046.74 | 1/4 | 1,689.39 | 1/4 | 1,332.05 | 1/4 | 974.79 | 1/4 | 617.75 | 1/4 | 260.41 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,039.29 | 1/2 | 1,681.95 | 1/2 | 1,324.60 | 1/2 | 967.35 | 1/2 | 610.31 | 1/2 | 252.97 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,031.85 | 3/4 | 1,674.50 | 3/4 | 1,317.16 | 3/4 | 959.92 | 3/4 | 602.86 | 3/4 | 245.52 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 9 | 2,024.40 | 9 | 1,667.06 | 9 | 1,309.71 | 9 | 952.49 | 9 | 595.42 | 9 | 238.08 | 9 | | 9 | 9 | | 9 | | 9 |
| 1/4 | 2,016.96 | 1/4 | 1,659.61 | 1/4 | 1,302.27 | 1/4 | 945.06 | 1/4 | 587.97 | 1/4 | 230.64 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 2,009.51 | 1/2 | 1,652.17 | 1/2 | 1,294.82 | 1/2 | 937.62 | 1/2 | 580.53 | 1/2 | 223.19 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 2,002.07 | 3/4 | 1,644.72 | 3/4 | 1,287.38 | 3/4 | 930.19 | 3/4 | 573.08 | 3/4 | 215.75 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 10 | 1,994.62 | 10 | 1,637.28 | 10 | 1,279.93 | 10 | 922.76 | 10 | 565.64 | 10 | 208.30 | 10 | | 10 | 10 | | 10 | | 10 |
| 1/4 | 1,987.18 | 1/4 | 1,629.83 | 1/4 | 1,272.49 | 1/4 | 915.33 | 1/4 | 558.19 | 1/4 | 200.86 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 1,979.74 | 1/2 | 1,622.39 | 1/2 | 1,265.04 | 1/2 | 907.89 | 1/2 | 550.75 | 1/2 | 193.41 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 1,972.29 | 3/4 | 1,614.94 | 3/4 | 1,257.60 | 3/4 | 900.46 | 3/4 | 543.30 | 3/4 | 185.97 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |
| 11 | 1,964.85 | 11 | 1,607.50 | 11 | 1,250.15 | 11 | 893.03 | 11 | 535.86 | 11 | 178.52 | 11 | | 11 | 11 | | 11 | | 11 |
| 1/4 | 1,957.40 | 1/4 | 1,600.06 | 1/4 | 1,242.71 | 1/4 | 885.60 | 1/4 | 528.42 | 1/4 | 171.08 | 1/4 | | 1/4 | 1/4 | | 1/4 | | 1/4 |
| 1/2 | 1,949.96 | 1/2 | 1,592.61 | 1/2 | 1,235.27 | 1/2 | 878.16 | 1/2 | 520.97 | 1/2 | 163.64 | 1/2 | | 1/2 | 1/2 | | 1/2 | | 1/2 |
| 3/4 | 1,942.51 | 3/4 | 1,585.17 | 3/4 | 1,227.82 | 3/4 | 870.73 | 3/4 | 513.53 | 3/4 | 156.19 | 3/4 | | 3/4 | 3/4 | | 3/4 | | 3/4 |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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CALCULATED: 12/15/2014 CL
PRINTED: 12/15/2014 CL

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