



BARGE "KIRBY 11314"

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 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-0/8 | 00-0/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 | - 00-1/8 | 00-1/8 |
| 2 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 |
| 3 CENTER | 00-1/8 | - 00-1/8 | 00-1/4 | - 00-1/4 | 00-3/8 | - 00-3/8 | 00-5/8 | - 00-5/8 | 00-3/4 | - 00-3/4 | 00-7/8 | - 00-7/8 |

(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 2 CENTER IS - 00-1/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 2 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 7/8"

LENGTH BETWEEN DRAFT MARKS: 162'-09"

July 14, 2005

**PRECISION MEASUREMENT
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BARGE "KIRBY 11314"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10"

| 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 | 3,654.80 | 0 | 3,407.82 | 0 | 3,161.07 | 0 | 2,913.13 | 0 | 2,641.11 | 0 | 2,368.99 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,649.66 | 1/4 | 3,402.68 | 1/4 | 3,155.92 | 1/4 | 2,907.47 | 1/4 | 2,635.44 | 1/4 | 2,363.32 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,644.52 | 1/2 | 3,397.53 | 1/2 | 3,150.78 | 1/2 | 2,901.80 | 1/2 | 2,629.78 | 1/2 | 2,357.65 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,639.37 | 3/4 | 3,392.39 | 3/4 | 3,145.64 | 3/4 | 2,896.13 | 3/4 | 2,624.11 | 3/4 | 2,351.98 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,634.23 | 1 | 3,387.24 | 1 | 3,140.49 | 1 | 2,890.46 | 1 | 2,618.44 | 1 | 2,346.31 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,629.08 | 1/4 | 3,382.10 | 1/4 | 3,135.35 | 1/4 | 2,884.80 | 1/4 | 2,612.77 | 1/4 | 2,340.64 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,623.94 | 1/2 | 3,376.95 | 1/2 | 3,130.21 | 1/2 | 2,879.13 | 1/2 | 2,607.10 | 1/2 | 2,334.97 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,618.79 | 3/4 | 3,371.81 | 3/4 | 3,125.06 | 3/4 | 2,873.46 | 3/4 | 2,601.44 | 3/4 | 2,329.30 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,838.13 | 2 | 3,613.65 | 2 | 3,366.66 | 2 | 3,119.92 | 2 | 2,867.80 | 2 | 2,595.77 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,836.37 | 1/4 | 3,608.50 | 1/4 | 3,361.52 | 1/4 | 3,114.77 | 1/4 | 2,862.13 | 1/4 | 2,590.10 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,834.61 | 1/2 | 3,603.36 | 1/2 | 3,356.38 | 1/2 | 3,109.63 | 1/2 | 2,856.46 | 1/2 | 2,584.43 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,832.85 | 3/4 | 3,598.21 | 3/4 | 3,351.23 | 3/4 | 3,104.49 | 3/4 | 2,850.79 | 3/4 | 2,578.76 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,831.09 | 3 | 3,593.07 | 3 | 3,346.09 | 3 | 3,099.34 | 3 | 2,845.13 | 3 | 2,573.09 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,827.71 | 1/4 | 3,587.92 | 1/4 | 3,340.95 | 1/4 | 3,094.20 | 1/4 | 2,839.46 | 1/4 | 2,567.42 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,824.32 | 1/2 | 3,582.77 | 1/2 | 3,335.81 | 1/2 | 3,089.06 | 1/2 | 2,833.79 | 1/2 | 2,561.75 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,820.94 | 3/4 | 3,577.63 | 3/4 | 3,330.67 | 3/4 | 3,083.91 | 3/4 | 2,828.13 | 3/4 | 2,556.08 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,817.56 | 4 | 3,572.48 | 4 | 3,325.54 | 4 | 3,078.77 | 4 | 2,822.46 | 4 | 2,550.41 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,812.89 | 1/4 | 3,567.34 | 1/4 | 3,320.40 | 1/4 | 3,073.63 | 1/4 | 2,816.79 | 1/4 | 2,544.74 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,808.22 | 1/2 | 3,562.19 | 1/2 | 3,315.26 | 1/2 | 3,068.48 | 1/2 | 2,811.12 | 1/2 | 2,539.07 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,803.55 | 3/4 | 3,557.05 | 3/4 | 3,310.12 | 3/4 | 3,063.34 | 3/4 | 2,805.46 | 3/4 | 2,533.41 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,798.88 | 5 | 3,551.90 | 5 | 3,304.98 | 5 | 3,058.20 | 5 | 2,799.79 | 5 | 2,527.74 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,793.73 | 1/4 | 3,546.76 | 1/4 | 3,299.84 | 1/4 | 3,053.05 | 1/4 | 2,794.12 | 1/4 | 2,522.07 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,788.59 | 1/2 | 3,541.61 | 1/2 | 3,294.70 | 1/2 | 3,047.91 | 1/2 | 2,788.46 | 1/2 | 2,516.40 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,783.44 | 3/4 | 3,536.46 | 3/4 | 3,289.56 | 3/4 | 3,042.77 | 3/4 | 2,782.79 | 3/4 | 2,510.73 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,778.29 | 6 | 3,531.32 | 6 | 3,284.42 | 6 | 3,037.62 | 6 | 2,777.12 | 6 | 2,505.06 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,773.15 | 1/4 | 3,526.17 | 1/4 | 3,279.29 | 1/4 | 3,032.48 | 1/4 | 2,771.45 | 1/4 | 2,499.39 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,768.00 | 1/2 | 3,521.03 | 1/2 | 3,274.15 | 1/2 | 3,027.34 | 1/2 | 2,765.79 | 1/2 | 2,493.72 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,762.86 | 3/4 | 3,515.88 | 3/4 | 3,269.01 | 3/4 | 3,022.19 | 3/4 | 2,760.12 | 3/4 | 2,488.05 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,757.71 | 7 | 3,510.74 | 7 | 3,263.87 | 7 | 3,017.05 | 7 | 2,754.45 | 7 | 2,482.38 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,752.57 | 1/4 | 3,505.59 | 1/4 | 3,258.73 | 1/4 | 3,011.90 | 1/4 | 2,748.79 | 1/4 | 2,476.71 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,747.42 | 1/2 | 3,500.45 | 1/2 | 3,253.59 | 1/2 | 3,006.76 | 1/2 | 2,743.12 | 1/2 | 2,471.04 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,742.28 | 3/4 | 3,495.30 | 3/4 | 3,248.45 | 3/4 | 3,001.62 | 3/4 | 2,737.45 | 3/4 | 2,465.37 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,737.13 | 8 | 3,490.15 | 8 | 3,243.31 | 8 | 2,996.47 | 8 | 2,731.79 | 8 | 2,459.70 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,731.99 | 1/4 | 3,485.01 | 1/4 | 3,238.18 | 1/4 | 2,991.33 | 1/4 | 2,726.12 | 1/4 | 2,454.03 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,726.84 | 1/2 | 3,479.86 | 1/2 | 3,233.04 | 1/2 | 2,986.19 | 1/2 | 2,720.45 | 1/2 | 2,448.36 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,721.69 | 3/4 | 3,474.72 | 3/4 | 3,227.90 | 3/4 | 2,981.04 | 3/4 | 2,714.78 | 3/4 | 2,442.69 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,716.55 | 9 | 3,469.57 | 9 | 3,222.76 | 9 | 2,975.90 | 9 | 2,709.12 | 9 | 2,437.02 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,711.40 | 1/4 | 3,464.43 | 1/4 | 3,217.62 | 1/4 | 2,970.76 | 1/4 | 2,703.45 | 1/4 | 2,431.35 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,706.26 | 1/2 | 3,459.28 | 1/2 | 3,212.48 | 1/2 | 2,965.61 | 1/2 | 2,697.78 | 1/2 | 2,425.68 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,701.11 | 3/4 | 3,454.13 | 3/4 | 3,207.34 | 3/4 | 2,960.47 | 3/4 | 2,692.12 | 3/4 | 2,420.02 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,695.97 | 10 | 3,448.99 | 10 | 3,202.20 | 10 | 2,955.33 | 10 | 2,686.45 | 10 | 2,414.35 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,690.82 | 1/4 | 3,443.84 | 1/4 | 3,197.06 | 1/4 | 2,950.18 | 1/4 | 2,680.78 | 1/4 | 2,408.68 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,685.67 | 1/2 | 3,438.70 | 1/2 | 3,191.92 | 1/2 | 2,945.04 | 1/2 | 2,675.11 | 1/2 | 2,403.01 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,680.53 | 3/4 | 3,433.55 | 3/4 | 3,186.78 | 3/4 | 2,939.90 | 3/4 | 2,669.45 | 3/4 | 2,397.34 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,675.38 | 11 | 3,428.41 | 11 | 3,181.64 | 11 | 2,934.75 | 11 | 2,663.78 | 11 | 2,391.67 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,670.24 | 1/4 | 3,423.26 | 1/4 | 3,176.50 | 1/4 | 2,929.35 | 1/4 | 2,658.11 | 1/4 | 2,386.00 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,665.09 | 1/2 | 3,418.12 | 1/2 | 3,171.35 | 1/2 | 2,923.94 | 1/2 | 2,652.45 | 1/2 | 2,380.33 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,659.95 | 3/4 | 3,412.97 | 3/4 | 3,166.21 | 3/4 | 2,918.54 | 3/4 | 2,646.78 | 3/4 | 2,374.66 |

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 1'-00" OFF CENTERLINE AND 29'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
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BARGE "KIRBY 11314"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10"

| 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 | 2,097.54 | 0 | 1,825.82 | 0 | 1,553.74 | 0 | 1,281.65 | 0 | 1,009.57 | 0 | 740.81 | 0 | 470.44 | 0 | 197.85 | 0 | | 0 | |
| 1/4 | 2,091.90 | 1/4 | 1,820.15 | 1/4 | 1,548.07 | 1/4 | 1,275.98 | 1/4 | 1,003.90 | 1/4 | 735.27 | 1/4 | 464.77 | 1/4 | 192.17 | 1/4 | | 1/4 | |
| 1/2 | 2,086.25 | 1/2 | 1,814.48 | 1/2 | 1,542.40 | 1/2 | 1,270.32 | 1/2 | 998.23 | 1/2 | 729.73 | 1/2 | 459.10 | 1/2 | 186.49 | 1/2 | | 1/2 | |
| 3/4 | 2,080.61 | 3/4 | 1,808.81 | 3/4 | 1,536.73 | 3/4 | 1,264.65 | 3/4 | 992.56 | 3/4 | 724.19 | 3/4 | 453.42 | 3/4 | 180.81 | 3/4 | | 3/4 | |
| 1 | 2,074.97 | 1 | 1,803.15 | 1 | 1,531.06 | 1 | 1,258.98 | 1 | 986.90 | 1 | 718.65 | 1 | 447.75 | 1 | 175.12 | 1 | | 1 | |
| 1/4 | 2,069.32 | 1/4 | 1,797.48 | 1/4 | 1,525.39 | 1/4 | 1,253.31 | 1/4 | 981.23 | 1/4 | 713.11 | 1/4 | 442.08 | 1/4 | 169.44 | 1/4 | | 1/4 | |
| 1/2 | 2,063.68 | 1/2 | 1,791.81 | 1/2 | 1,519.73 | 1/2 | 1,247.64 | 1/2 | 975.56 | 1/2 | 707.57 | 1/2 | 436.41 | 1/2 | 163.76 | 1/2 | | 1/2 | |
| 3/4 | 2,058.04 | 3/4 | 1,786.14 | 3/4 | 1,514.06 | 3/4 | 1,241.97 | 3/4 | 969.89 | 3/4 | 702.03 | 3/4 | 430.74 | 3/4 | 158.07 | 3/4 | | 3/4 | |
| 2 | 2,052.39 | 2 | 1,780.47 | 2 | 1,508.39 | 2 | 1,236.31 | 2 | 964.22 | 2 | 696.49 | 2 | 425.07 | 2 | 152.39 | 2 | | 2 | |
| 1/4 | 2,046.75 | 1/4 | 1,774.80 | 1/4 | 1,502.72 | 1/4 | 1,230.64 | 1/4 | 958.55 | 1/4 | 690.95 | 1/4 | 419.40 | 1/4 | 146.71 | 1/4 | | 1/4 | |
| 1/2 | 2,041.11 | 1/2 | 1,769.13 | 1/2 | 1,497.05 | 1/2 | 1,224.97 | 1/2 | 952.89 | 1/2 | 685.41 | 1/2 | 413.73 | 1/2 | 141.03 | 1/2 | | 1/2 | |
| 3/4 | 2,035.46 | 3/4 | 1,763.47 | 3/4 | 1,491.38 | 3/4 | 1,219.30 | 3/4 | 947.22 | 3/4 | 679.87 | 3/4 | 408.05 | 3/4 | 135.34 | 3/4 | | 3/4 | |
| 3 | 2,029.82 | 3 | 1,757.80 | 3 | 1,485.71 | 3 | 1,213.63 | 3 | 941.55 | 3 | 674.33 | 3 | 402.38 | 3 | 129.66 | 3 | | 3 | |
| 1/4 | 2,024.17 | 1/4 | 1,752.13 | 1/4 | 1,480.05 | 1/4 | 1,207.96 | 1/4 | 935.88 | 1/4 | 668.73 | 1/4 | 396.71 | 1/4 | 123.98 | 1/4 | | 1/4 | |
| 1/2 | 2,018.51 | 1/2 | 1,746.46 | 1/2 | 1,474.38 | 1/2 | 1,202.29 | 1/2 | 930.21 | 1/2 | 663.12 | 1/2 | 391.04 | 1/2 | 118.29 | 1/2 | | 1/2 | |
| 3/4 | 2,012.86 | 3/4 | 1,740.79 | 3/4 | 1,468.71 | 3/4 | 1,196.63 | 3/4 | 924.54 | 3/4 | 657.51 | 3/4 | 385.36 | 3/4 | 112.61 | 3/4 | | 3/4 | |
| 4 | 2,007.21 | 4 | 1,735.12 | 4 | 1,463.04 | 4 | 1,190.96 | 4 | 918.87 | 4 | 651.91 | 4 | 379.69 | 4 | 106.93 | 4 | | 4 | |
| 1/4 | 2,001.54 | 1/4 | 1,729.46 | 1/4 | 1,457.37 | 1/4 | 1,185.29 | 1/4 | 913.21 | 1/4 | 646.24 | 1/4 | 374.01 | 1/4 | 101.25 | 1/4 | | 1/4 | |
| 1/2 | 1,995.87 | 1/2 | 1,723.79 | 1/2 | 1,451.70 | 1/2 | 1,179.62 | 1/2 | 907.54 | 1/2 | 640.57 | 1/2 | 368.33 | 1/2 | 95.56 | 1/2 | | 1/2 | |
| 3/4 | 1,990.20 | 3/4 | 1,718.12 | 3/4 | 1,446.04 | 3/4 | 1,173.95 | 3/4 | 901.87 | 3/4 | 634.90 | 3/4 | 362.66 | 3/4 | 89.88 | 3/4 | | 3/4 | |
| 5 | 1,984.53 | 5 | 1,712.45 | 5 | 1,440.37 | 5 | 1,168.28 | 5 | 896.20 | 5 | 629.23 | 5 | 356.98 | 5 | 84.20 | 5 | | 5 | |
| 1/4 | 1,978.87 | 1/4 | 1,706.78 | 1/4 | 1,434.70 | 1/4 | 1,162.62 | 1/4 | 890.60 | 1/4 | 623.56 | 1/4 | 351.29 | 1/4 | 78.51 | 1/4 | | 1/4 | |
| 1/2 | 1,973.20 | 1/2 | 1,701.11 | 1/2 | 1,429.03 | 1/2 | 1,156.95 | 1/2 | 884.99 | 1/2 | 617.89 | 1/2 | 345.61 | 1/2 | 72.83 | 1/2 | | 1/2 | |
| 3/4 | 1,967.53 | 3/4 | 1,695.45 | 3/4 | 1,423.36 | 3/4 | 1,151.28 | 3/4 | 879.39 | 3/4 | 612.22 | 3/4 | 339.93 | 3/4 | 67.15 | 3/4 | | 3/4 | |
| 6 | 1,961.86 | 6 | 1,689.78 | 6 | 1,417.69 | 6 | 1,145.61 | 6 | 873.78 | 6 | 606.55 | 6 | 334.24 | 6 | 61.47 | 6 | | 6 | |
| 1/4 | 1,956.19 | 1/4 | 1,684.11 | 1/4 | 1,412.03 | 1/4 | 1,139.94 | 1/4 | 868.24 | 1/4 | 600.87 | 1/4 | 328.56 | 1/4 | 55.78 | 1/4 | | 1/4 | |
| 1/2 | 1,950.52 | 1/2 | 1,678.44 | 1/2 | 1,406.36 | 1/2 | 1,134.27 | 1/2 | 862.70 | 1/2 | 595.20 | 1/2 | 322.88 | 1/2 | 50.10 | 1/2 | | 1/2 | |
| 3/4 | 1,944.86 | 3/4 | 1,672.77 | 3/4 | 1,400.69 | 3/4 | 1,128.61 | 3/4 | 857.16 | 3/4 | 589.53 | 3/4 | 317.20 | 3/4 | 44.42 | 3/4 | | 3/4 | |
| 7 | 1,939.19 | 7 | 1,667.10 | 7 | 1,395.02 | 7 | 1,122.94 | 7 | 851.62 | 7 | 583.86 | 7 | 311.51 | 7 | 38.73 | 7 | | 7 | |
| 1/4 | 1,933.52 | 1/4 | 1,661.44 | 1/4 | 1,389.35 | 1/4 | 1,117.27 | 1/4 | 846.08 | 1/4 | 578.19 | 1/4 | 305.83 | 1/4 | 33.03 | 1/4 | | 1/4 | |
| 1/2 | 1,927.85 | 1/2 | 1,655.77 | 1/2 | 1,383.68 | 1/2 | 1,111.60 | 1/2 | 840.54 | 1/2 | 572.52 | 1/2 | 300.15 | 1/2 | 27.32 | 1/2 | | 1/2 | |
| 3/4 | 1,922.18 | 3/4 | 1,650.10 | 3/4 | 1,378.02 | 3/4 | 1,105.93 | 3/4 | 834.99 | 3/4 | 566.85 | 3/4 | 294.46 | 3/4 | 21.61 | 3/4 | | 3/4 | |
| 8 | 1,916.51 | 8 | 1,644.43 | 8 | 1,372.35 | 8 | 1,100.26 | 8 | 829.45 | 8 | 561.18 | 8 | 288.78 | 8 | 15.90 | 8 | | 8 | |
| 1/4 | 1,910.84 | 1/4 | 1,638.76 | 1/4 | 1,366.68 | 1/4 | 1,094.60 | 1/4 | 823.91 | 1/4 | 555.51 | 1/4 | 283.10 | 1/4 | 10.19 | 1/4 | | 1/4 | |
| 1/2 | 1,905.18 | 1/2 | 1,633.09 | 1/2 | 1,361.01 | 1/2 | 1,088.93 | 1/2 | 818.37 | 1/2 | 549.84 | 1/2 | 277.42 | 1/2 | 4.48 | 1/2 | | 1/2 | |
| 3/4 | 1,899.51 | 3/4 | 1,627.42 | 3/4 | 1,355.34 | 3/4 | 1,083.26 | 3/4 | 812.83 | 3/4 | 544.16 | 3/4 | 271.73 | 3/4 | -1.23 | 3/4 | | 3/4 | |
| 9 | 1,893.84 | 9 | 1,621.76 | 9 | 1,349.67 | 9 | 1,077.59 | 9 | 807.29 | 9 | 538.49 | 9 | 266.05 | 9 | -7.02 | 9 | | 9 | |
| 1/4 | 1,888.17 | 1/4 | 1,616.09 | 1/4 | 1,344.00 | 1/4 | 1,071.92 | 1/4 | 801.75 | 1/4 | 532.82 | 1/4 | 260.37 | 1/4 | -12.71 | 1/4 | | 1/4 | |
| 1/2 | 1,882.50 | 1/2 | 1,610.42 | 1/2 | 1,338.34 | 1/2 | 1,066.25 | 1/2 | 796.21 | 1/2 | 527.15 | 1/2 | 254.68 | 1/2 | -18.40 | 1/2 | | 1/2 | |
| 3/4 | 1,876.83 | 3/4 | 1,604.75 | 3/4 | 1,332.67 | 3/4 | 1,060.58 | 3/4 | 790.67 | 3/4 | 521.48 | 3/4 | 249.00 | 3/4 | -24.09 | 3/4 | | 3/4 | |
| 10 | 1,871.17 | 10 | 1,599.08 | 10 | 1,327.00 | 10 | 1,054.92 | 10 | 785.13 | 10 | 515.81 | 10 | 243.32 | 10 | -29.78 | 10 | | 10 | |
| 1/4 | 1,865.50 | 1/4 | 1,593.41 | 1/4 | 1,321.33 | 1/4 | 1,049.25 | 1/4 | 779.59 | 1/4 | 510.14 | 1/4 | 237.64 | 1/4 | -35.47 | 1/4 | | 1/4 | |
| 1/2 | 1,859.83 | 1/2 | 1,587.75 | 1/2 | 1,315.66 | 1/2 | 1,043.58 | 1/2 | 774.05 | 1/2 | 504.47 | 1/2 | 231.95 | 1/2 | -41.16 | 1/2 | | 1/2 | |
| 3/4 | 1,854.16 | 3/4 | 1,582.08 | 3/4 | 1,309.99 | 3/4 | 1,037.91 | 3/4 | 768.51 | 3/4 | 498.79 | 3/4 | 226.27 | 3/4 | -46.85 | 3/4 | | 3/4 | |
| 11 | 1,848.49 | 11 | 1,576.41 | 11 | 1,304.33 | 11 | 1,032.24 | 11 | 762.97 | 11 | 493.12 | 11 | 220.59 | 11 | -52.54 | 11 | | 11 | |
| 1/4 | 1,842.82 | 1/4 | 1,570.74 | 1/4 | 1,298.66 | 1/4 | 1,026.57 | 1/4 | 757.43 | 1/4 | 487.45 | 1/4 | 214.90 | 1/4 | -58.23 | 1/4 | | 1/4 | |
| 1/2 | 1,837.16 | 1/2 | 1,565.07 | 1/2 | 1,292.99 | 1/2 | 1,020.91 | 1/2 | 751.89 | 1/2 | 481.78 | 1/2 | 209.22 | 1/2 | -63.92 | 1/2 | | 1/2 | |
| 3/4 | 1,831.49 | 3/4 | 1,559.40 | 3/4 | 1,287.32 | 3/4 | 1,015.24 | 3/4 | 746.35 | 3/4 | 476.11 | 3/4 | 203.54 | 3/4 | -69.61 | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2005 CL - SW
CALCULATED: 07/14/2005 CL
PRINTED: 07/14/2005 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2005



BARGE "KIRBY 11314"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 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 | 3,430.24 | 0 | 3,181.12 | 0 | 2,932.00 | 0 | 2,682.88 | 0 | 2,433.76 | 0 | 2,184.64 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,425.05 | 1/4 | 3,175.93 | 1/4 | 2,926.81 | 1/4 | 2,677.69 | 1/4 | 2,428.57 | 1/4 | 2,179.45 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,419.86 | 1/2 | 3,170.74 | 1/2 | 2,921.62 | 1/2 | 2,672.50 | 1/2 | 2,423.38 | 1/2 | 2,174.26 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,414.67 | 3/4 | 3,165.55 | 3/4 | 2,916.43 | 3/4 | 2,667.31 | 3/4 | 2,418.19 | 3/4 | 2,169.07 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,409.48 | 1 | 3,160.36 | 1 | 2,911.24 | 1 | 2,662.12 | 1 | 2,413.00 | 1 | 2,163.88 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,404.29 | 1/4 | 3,155.17 | 1/4 | 2,906.05 | 1/4 | 2,656.93 | 1/4 | 2,407.81 | 1/4 | 2,158.69 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,399.10 | 1/2 | 3,149.98 | 1/2 | 2,900.86 | 1/2 | 2,651.74 | 1/2 | 2,402.62 | 1/2 | 2,153.50 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,393.91 | 3/4 | 3,144.79 | 3/4 | 2,895.67 | 3/4 | 2,646.55 | 3/4 | 2,397.43 | 3/4 | 2,148.31 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,388.72 | 2 | 3,139.60 | 2 | 2,890.48 | 2 | 2,641.36 | 2 | 2,392.24 | 2 | 2,143.12 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,383.53 | 1/4 | 3,134.41 | 1/4 | 2,885.29 | 1/4 | 2,636.17 | 1/4 | 2,387.05 | 1/4 | 2,137.93 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,604.96 | 1/2 | 3,378.34 | 1/2 | 3,129.22 | 1/2 | 2,880.10 | 1/2 | 2,630.98 | 1/2 | 2,381.86 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,603.23 | 3/4 | 3,373.15 | 3/4 | 3,124.03 | 3/4 | 2,874.91 | 3/4 | 2,625.79 | 3/4 | 2,376.67 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,601.50 | 3 | 3,367.96 | 3 | 3,118.84 | 3 | 2,869.72 | 3 | 2,620.60 | 3 | 2,371.48 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,599.77 | 1/4 | 3,362.77 | 1/4 | 3,113.65 | 1/4 | 2,864.53 | 1/4 | 2,615.41 | 1/4 | 2,366.29 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,598.04 | 1/2 | 3,357.58 | 1/2 | 3,108.46 | 1/2 | 2,859.34 | 1/2 | 2,610.22 | 1/2 | 2,361.10 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,594.58 | 3/4 | 3,352.39 | 3/4 | 3,103.27 | 3/4 | 2,854.15 | 3/4 | 2,605.03 | 3/4 | 2,355.91 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,591.12 | 4 | 3,347.20 | 4 | 3,098.08 | 4 | 2,848.96 | 4 | 2,599.84 | 4 | 2,350.72 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,587.65 | 1/4 | 3,342.01 | 1/4 | 3,092.89 | 1/4 | 2,843.77 | 1/4 | 2,594.65 | 1/4 | 2,345.53 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,584.19 | 1/2 | 3,336.82 | 1/2 | 3,087.70 | 1/2 | 2,838.58 | 1/2 | 2,589.46 | 1/2 | 2,340.34 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,579.44 | 3/4 | 3,331.63 | 3/4 | 3,082.51 | 3/4 | 2,833.39 | 3/4 | 2,584.27 | 3/4 | 2,335.15 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,574.68 | 5 | 3,326.44 | 5 | 3,077.32 | 5 | 2,828.20 | 5 | 2,579.08 | 5 | 2,329.96 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,569.93 | 1/4 | 3,321.25 | 1/4 | 3,072.13 | 1/4 | 2,823.01 | 1/4 | 2,573.89 | 1/4 | 2,324.77 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,565.18 | 1/2 | 3,316.06 | 1/2 | 3,066.94 | 1/2 | 2,817.82 | 1/2 | 2,568.70 | 1/2 | 2,319.58 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,559.99 | 3/4 | 3,310.87 | 3/4 | 3,061.75 | 3/4 | 2,812.63 | 3/4 | 2,563.51 | 3/4 | 2,314.39 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,554.80 | 6 | 3,305.68 | 6 | 3,056.56 | 6 | 2,807.44 | 6 | 2,558.32 | 6 | 2,309.20 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,549.61 | 1/4 | 3,300.49 | 1/4 | 3,051.37 | 1/4 | 2,802.25 | 1/4 | 2,553.13 | 1/4 | 2,304.01 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,544.42 | 1/2 | 3,295.30 | 1/2 | 3,046.18 | 1/2 | 2,797.06 | 1/2 | 2,547.94 | 1/2 | 2,298.82 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,539.23 | 3/4 | 3,290.11 | 3/4 | 3,040.99 | 3/4 | 2,791.87 | 3/4 | 2,542.75 | 3/4 | 2,293.63 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,534.04 | 7 | 3,284.92 | 7 | 3,035.80 | 7 | 2,786.68 | 7 | 2,537.56 | 7 | 2,288.44 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,528.85 | 1/4 | 3,279.73 | 1/4 | 3,030.61 | 1/4 | 2,781.49 | 1/4 | 2,532.37 | 1/4 | 2,283.25 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,523.66 | 1/2 | 3,274.54 | 1/2 | 3,025.42 | 1/2 | 2,776.30 | 1/2 | 2,527.18 | 1/2 | 2,278.06 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,518.47 | 3/4 | 3,269.35 | 3/4 | 3,020.23 | 3/4 | 2,771.11 | 3/4 | 2,521.99 | 3/4 | 2,272.87 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,513.28 | 8 | 3,264.16 | 8 | 3,015.04 | 8 | 2,765.92 | 8 | 2,516.80 | 8 | 2,267.68 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,508.09 | 1/4 | 3,258.97 | 1/4 | 3,009.85 | 1/4 | 2,760.73 | 1/4 | 2,511.61 | 1/4 | 2,262.49 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,502.90 | 1/2 | 3,253.78 | 1/2 | 3,004.66 | 1/2 | 2,755.54 | 1/2 | 2,506.42 | 1/2 | 2,257.30 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,497.71 | 3/4 | 3,248.59 | 3/4 | 2,999.47 | 3/4 | 2,750.35 | 3/4 | 2,501.23 | 3/4 | 2,252.11 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,492.52 | 9 | 3,243.40 | 9 | 2,994.28 | 9 | 2,745.16 | 9 | 2,496.04 | 9 | 2,246.92 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,487.33 | 1/4 | 3,238.21 | 1/4 | 2,989.09 | 1/4 | 2,739.97 | 1/4 | 2,490.85 | 1/4 | 2,241.73 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,482.14 | 1/2 | 3,233.02 | 1/2 | 2,983.90 | 1/2 | 2,734.78 | 1/2 | 2,485.66 | 1/2 | 2,236.54 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,476.95 | 3/4 | 3,227.83 | 3/4 | 2,978.71 | 3/4 | 2,729.59 | 3/4 | 2,480.47 | 3/4 | 2,231.35 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,471.76 | 10 | 3,222.64 | 10 | 2,973.52 | 10 | 2,724.40 | 10 | 2,475.28 | 10 | 2,226.16 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,466.57 | 1/4 | 3,217.45 | 1/4 | 2,968.33 | 1/4 | 2,719.21 | 1/4 | 2,470.09 | 1/4 | 2,220.97 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,461.38 | 1/2 | 3,212.26 | 1/2 | 2,963.14 | 1/2 | 2,714.02 | 1/2 | 2,464.90 | 1/2 | 2,215.78 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,456.19 | 3/4 | 3,207.07 | 3/4 | 2,957.95 | 3/4 | 2,708.83 | 3/4 | 2,459.71 | 3/4 | 2,210.59 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,451.00 | 11 | 3,201.88 | 11 | 2,952.76 | 11 | 2,703.64 | 11 | 2,454.52 | 11 | 2,205.40 |
| 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 1/4 | 3,445.81 | 1/4 | 3,196.69 | 1/4 | 2,947.57 | 1/4 | 2,698.45 | 1/4 | 2,449.33 | 1/4 | 2,200.21 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 3,440.62 | 1/2 | 3,191.50 | 1/2 | 2,942.38 | 1/2 | 2,693.26 | 1/2 | 2,444.14 | 1/2 | 2,195.02 |
| 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3,435.43 | 3/4 | 3,186.31 | 3/4 | 2,937.19 | 3/4 | 2,688.07 | 3/4 | 2,438.95 | 3/4 | 2,189.83 |

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 1'-00" OFF CENTERLINE AND 28'-02" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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 Pearland, Texas 77588
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BARGE "KIRBY 11314"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 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 | 1,935.52 | 0 | 1,686.40 | 0 | 1,437.28 | 0 | 1,188.16 | 0 | 939.04 | 0 | 693.56 | 0 | 446.91 | 0 | 197.82 | 0 | | 0 | |
| 1/4 | 1,930.33 | 1/4 | 1,681.21 | 1/4 | 1,432.09 | 1/4 | 1,182.97 | 1/4 | 933.85 | 1/4 | 688.53 | 1/4 | 441.73 | 1/4 | 192.63 | 1/4 | | 1/4 | |
| 1/2 | 1,925.14 | 1/2 | 1,676.02 | 1/2 | 1,426.90 | 1/2 | 1,177.78 | 1/2 | 928.66 | 1/2 | 683.49 | 1/2 | 436.54 | 1/2 | 187.44 | 1/2 | | 1/2 | |
| 3/4 | 1,919.95 | 3/4 | 1,670.83 | 3/4 | 1,421.71 | 3/4 | 1,172.59 | 3/4 | 923.47 | 3/4 | 678.45 | 3/4 | 431.35 | 3/4 | 182.25 | 3/4 | | 3/4 | |
| 1 | 1,914.76 | 1 | 1,665.64 | 1 | 1,416.52 | 1 | 1,167.40 | 1 | 918.28 | 1 | 673.41 | 1 | 426.16 | 1 | 177.06 | 1 | | 1 | |
| 1/4 | 1,909.57 | 1/4 | 1,660.45 | 1/4 | 1,411.33 | 1/4 | 1,162.21 | 1/4 | 913.09 | 1/4 | 668.38 | 1/4 | 420.97 | 1/4 | 171.87 | 1/4 | | 1/4 | |
| 1/2 | 1,904.38 | 1/2 | 1,655.26 | 1/2 | 1,406.14 | 1/2 | 1,157.02 | 1/2 | 907.90 | 1/2 | 663.34 | 1/2 | 415.78 | 1/2 | 166.68 | 1/2 | | 1/2 | |
| 3/4 | 1,899.19 | 3/4 | 1,650.07 | 3/4 | 1,400.95 | 3/4 | 1,151.83 | 3/4 | 902.71 | 3/4 | 658.30 | 3/4 | 410.59 | 3/4 | 161.49 | 3/4 | | 3/4 | |
| 2 | 1,894.00 | 2 | 1,644.88 | 2 | 1,395.76 | 2 | 1,146.64 | 2 | 897.52 | 2 | 653.26 | 2 | 405.40 | 2 | 156.30 | 2 | | 2 | |
| 1/4 | 1,888.81 | 1/4 | 1,639.69 | 1/4 | 1,390.57 | 1/4 | 1,141.45 | 1/4 | 892.33 | 1/4 | 648.23 | 1/4 | 400.21 | 1/4 | 151.11 | 1/4 | | 1/4 | |
| 1/2 | 1,883.62 | 1/2 | 1,634.50 | 1/2 | 1,385.38 | 1/2 | 1,136.26 | 1/2 | 887.14 | 1/2 | 643.19 | 1/2 | 395.02 | 1/2 | 145.92 | 1/2 | | 1/2 | |
| 3/4 | 1,878.43 | 3/4 | 1,629.31 | 3/4 | 1,380.19 | 3/4 | 1,131.07 | 3/4 | 881.95 | 3/4 | 638.15 | 3/4 | 389.83 | 3/4 | 140.73 | 3/4 | | 3/4 | |
| 3 | 1,873.24 | 3 | 1,624.12 | 3 | 1,375.00 | 3 | 1,125.88 | 3 | 876.76 | 3 | 633.11 | 3 | 384.64 | 3 | 135.54 | 3 | | 3 | |
| 1/4 | 1,868.05 | 1/4 | 1,618.93 | 1/4 | 1,369.81 | 1/4 | 1,120.69 | 1/4 | 871.57 | 1/4 | 628.08 | 1/4 | 379.45 | 1/4 | 130.36 | 1/4 | | 1/4 | |
| 1/2 | 1,862.86 | 1/2 | 1,613.74 | 1/2 | 1,364.62 | 1/2 | 1,115.50 | 1/2 | 866.38 | 1/2 | 623.04 | 1/2 | 374.26 | 1/2 | 125.17 | 1/2 | | 1/2 | |
| 3/4 | 1,857.67 | 3/4 | 1,608.55 | 3/4 | 1,359.43 | 3/4 | 1,110.31 | 3/4 | 861.19 | 3/4 | 617.93 | 3/4 | 369.07 | 3/4 | 119.98 | 3/4 | | 3/4 | |
| 4 | 1,852.48 | 4 | 1,603.36 | 4 | 1,354.24 | 4 | 1,105.12 | 4 | 856.00 | 4 | 612.81 | 4 | 363.88 | 4 | 114.79 | 4 | | 4 | |
| 1/4 | 1,847.29 | 1/4 | 1,598.17 | 1/4 | 1,349.05 | 1/4 | 1,099.93 | 1/4 | 850.81 | 1/4 | 607.70 | 1/4 | 358.69 | 1/4 | 109.60 | 1/4 | | 1/4 | |
| 1/2 | 1,842.10 | 1/2 | 1,592.98 | 1/2 | 1,343.86 | 1/2 | 1,094.74 | 1/2 | 845.62 | 1/2 | 602.59 | 1/2 | 353.50 | 1/2 | 104.41 | 1/2 | | 1/2 | |
| 3/4 | 1,836.91 | 3/4 | 1,587.79 | 3/4 | 1,338.67 | 3/4 | 1,089.55 | 3/4 | 840.43 | 3/4 | 597.40 | 3/4 | 348.31 | 3/4 | 99.22 | 3/4 | | 3/4 | |
| 5 | 1,831.72 | 5 | 1,582.60 | 5 | 1,333.48 | 5 | 1,084.36 | 5 | 835.24 | 5 | 592.21 | 5 | 343.12 | 5 | 94.03 | 5 | | 5 | |
| 1/4 | 1,826.53 | 1/4 | 1,577.41 | 1/4 | 1,328.29 | 1/4 | 1,079.17 | 1/4 | 830.05 | 1/4 | 587.02 | 1/4 | 337.94 | 1/4 | 88.84 | 1/4 | | 1/4 | |
| 1/2 | 1,821.34 | 1/2 | 1,572.22 | 1/2 | 1,323.10 | 1/2 | 1,073.98 | 1/2 | 824.86 | 1/2 | 581.83 | 1/2 | 332.75 | 1/2 | 83.65 | 1/2 | | 1/2 | |
| 3/4 | 1,816.15 | 3/4 | 1,567.03 | 3/4 | 1,317.91 | 3/4 | 1,068.79 | 3/4 | 819.74 | 3/4 | 576.64 | 3/4 | 327.56 | 3/4 | 78.46 | 3/4 | | 3/4 | |
| 6 | 1,810.96 | 6 | 1,561.84 | 6 | 1,312.72 | 6 | 1,063.60 | 6 | 814.63 | 6 | 571.46 | 6 | 322.37 | 6 | 73.27 | 6 | | 6 | |
| 1/4 | 1,805.77 | 1/4 | 1,556.65 | 1/4 | 1,307.53 | 1/4 | 1,058.41 | 1/4 | 809.51 | 1/4 | 566.27 | 1/4 | 317.18 | 1/4 | 68.08 | 1/4 | | 1/4 | |
| 1/2 | 1,800.58 | 1/2 | 1,551.46 | 1/2 | 1,302.34 | 1/2 | 1,053.22 | 1/2 | 804.40 | 1/2 | 561.08 | 1/2 | 311.99 | 1/2 | 62.89 | 1/2 | | 1/2 | |
| 3/4 | 1,795.39 | 3/4 | 1,546.27 | 3/4 | 1,297.15 | 3/4 | 1,048.03 | 3/4 | 799.36 | 3/4 | 555.89 | 3/4 | 306.80 | 3/4 | 57.70 | 3/4 | | 3/4 | |
| 7 | 1,790.20 | 7 | 1,541.08 | 7 | 1,291.96 | 7 | 1,042.84 | 7 | 794.32 | 7 | 550.70 | 7 | 301.61 | 7 | 52.51 | 7 | | 7 | |
| 1/4 | 1,785.01 | 1/4 | 1,535.89 | 1/4 | 1,286.77 | 1/4 | 1,037.65 | 1/4 | 789.28 | 1/4 | 545.51 | 1/4 | 296.42 | 1/4 | 47.32 | 1/4 | | 1/4 | |
| 1/2 | 1,779.82 | 1/2 | 1,530.70 | 1/2 | 1,281.58 | 1/2 | 1,032.46 | 1/2 | 784.24 | 1/2 | 540.33 | 1/2 | 291.23 | 1/2 | 42.13 | 1/2 | | 1/2 | |
| 3/4 | 1,774.63 | 3/4 | 1,525.51 | 3/4 | 1,276.39 | 3/4 | 1,027.27 | 3/4 | 779.20 | 3/4 | 535.14 | 3/4 | 286.04 | 3/4 | 37.38 | 3/4 | | 3/4 | |
| 8 | 1,769.44 | 8 | 1,520.32 | 8 | 1,271.20 | 8 | 1,022.08 | 8 | 774.17 | 8 | 529.95 | 8 | 280.85 | 8 | 32.62 | 8 | | 8 | |
| 1/4 | 1,764.25 | 1/4 | 1,515.13 | 1/4 | 1,266.01 | 1/4 | 1,016.89 | 1/4 | 769.13 | 1/4 | 524.76 | 1/4 | 275.66 | 1/4 | 27.86 | 1/4 | | 1/4 | |
| 1/2 | 1,759.06 | 1/2 | 1,509.94 | 1/2 | 1,260.82 | 1/2 | 1,011.70 | 1/2 | 764.09 | 1/2 | 519.57 | 1/2 | 270.47 | 1/2 | 23.11 | 1/2 | | 1/2 | |
| 3/4 | 1,753.87 | 3/4 | 1,504.75 | 3/4 | 1,255.63 | 3/4 | 1,006.51 | 3/4 | 759.05 | 3/4 | 514.38 | 3/4 | 265.28 | 3/4 | 19.65 | 3/4 | | 3/4 | |
| 9 | 1,748.68 | 9 | 1,499.56 | 9 | 1,250.44 | 9 | 1,001.32 | 9 | 754.01 | 9 | 509.19 | 9 | 260.09 | 9 | 16.19 | 9 | | 9 | |
| 1/4 | 1,743.49 | 1/4 | 1,494.37 | 1/4 | 1,245.25 | 1/4 | 996.13 | 1/4 | 748.98 | 1/4 | 504.00 | 1/4 | 254.90 | 1/4 | 12.73 | 1/4 | | 1/4 | |
| 1/2 | 1,738.30 | 1/2 | 1,489.18 | 1/2 | 1,240.06 | 1/2 | 990.94 | 1/2 | 743.94 | 1/2 | 498.81 | 1/2 | 249.71 | 1/2 | 9.27 | 1/2 | | 1/2 | |
| 3/4 | 1,733.11 | 3/4 | 1,483.99 | 3/4 | 1,234.87 | 3/4 | 985.75 | 3/4 | 738.90 | 3/4 | 493.62 | 3/4 | 244.52 | 3/4 | 7.54 | 3/4 | | 3/4 | |
| 10 | 1,727.92 | 10 | 1,478.80 | 10 | 1,229.68 | 10 | 980.56 | 10 | 733.86 | 10 | 488.43 | 10 | 239.33 | 10 | 5.81 | 10 | | 10 | |
| 1/4 | 1,722.73 | 1/4 | 1,473.61 | 1/4 | 1,224.49 | 1/4 | 975.37 | 1/4 | 728.83 | 1/4 | 483.24 | 1/4 | 234.15 | 1/4 | 4.08 | 1/4 | | 1/4 | |
| 1/2 | 1,717.54 | 1/2 | 1,468.42 | 1/2 | 1,219.30 | 1/2 | 970.18 | 1/2 | 723.79 | 1/2 | 478.05 | 1/2 | 228.96 | 1/2 | 2.35 | 1/2 | | 1/2 | |
| 3/4 | 1,712.35 | 3/4 | 1,463.23 | 3/4 | 1,214.11 | 3/4 | 964.99 | 3/4 | 718.75 | 3/4 | 472.86 | 3/4 | 223.77 | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,707.16 | 11 | 1,458.04 | 11 | 1,208.92 | 11 | 959.80 | 11 | 713.71 | 11 | 467.67 | 11 | 218.58 | 11 | | 11 | | 11 | |
| 1/4 | 1,701.97 | 1/4 | 1,452.85 | 1/4 | 1,203.73 | 1/4 | 954.61 | 1/4 | 708.68 | 1/4 | 462.48 | 1/4 | 213.39 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,696.78 | 1/2 | 1,447.66 | 1/2 | 1,198.54 | 1/2 | 949.42 | 1/2 | 703.64 | 1/2 | 457.29 | 1/2 | 208.20 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,691.59 | 3/4 | 1,442.47 | 3/4 | 1,193.35 | 3/4 | 944.23 | 3/4 | 698.60 | 3/4 | 452.10 | 3/4 | 203.01 | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2005 CL - SW
CALCULATED: 07/14/2005 CL
PRINTED: 07/14/2005 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 07/2005

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 11314"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 1/4"

| IN | 0 FT. | IN | 1 FT. | IN | 2 FT. | IN | 3 FT. | IN | 4 FT. | IN | 5 FT. | IN | 6 FT. | IN | 7 FT. | IN | 8 FT. | IN | 9 FT. |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| 0 | | 0 | | 0 | | 0 | | 0 | 3,414.93 | 0 | 3,166.96 | 0 | 2,918.99 | 0 | 2,671.02 | 0 | 2,423.05 | 0 | 2,175.09 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,409.76 | 1/4 | 3,161.79 | 1/4 | 2,913.82 | 1/4 | 2,665.86 | 1/4 | 2,417.89 | 1/4 | 2,169.92 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,404.59 | 1/2 | 3,156.63 | 1/2 | 2,908.66 | 1/2 | 2,660.69 | 1/2 | 2,412.72 | 1/2 | 2,164.75 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,399.43 | 3/4 | 3,151.46 | 3/4 | 2,903.49 | 3/4 | 2,655.52 | 3/4 | 2,407.56 | 3/4 | 2,159.59 |
| 1 | | 1 | | 1 | | 1 | | 1 | 3,394.26 | 1 | 3,146.29 | 1 | 2,898.33 | 1 | 2,650.36 | 1 | 2,402.39 | 1 | 2,154.42 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,389.10 | 1/4 | 3,141.13 | 1/4 | 2,893.16 | 1/4 | 2,645.19 | 1/4 | 2,397.22 | 1/4 | 2,149.26 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,383.93 | 1/2 | 3,135.96 | 1/2 | 2,887.99 | 1/2 | 2,640.03 | 1/2 | 2,392.06 | 1/2 | 2,144.09 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,378.76 | 3/4 | 3,130.80 | 3/4 | 2,882.83 | 3/4 | 2,634.86 | 3/4 | 2,386.89 | 3/4 | 2,138.92 |
| 2 | | 2 | | 2 | | 2 | | 2 | 3,373.60 | 2 | 3,125.63 | 2 | 2,877.66 | 2 | 2,629.69 | 2 | 2,381.73 | 2 | 2,133.76 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,594.02 | 1/4 | 3,368.43 | 1/4 | 3,120.46 | 1/4 | 2,872.50 | 1/4 | 2,624.53 | 1/4 | 2,376.56 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,592.30 | 1/2 | 3,363.27 | 1/2 | 3,115.30 | 1/2 | 2,867.33 | 1/2 | 2,619.36 | 1/2 | 2,371.39 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,590.58 | 3/4 | 3,358.10 | 3/4 | 3,110.13 | 3/4 | 2,862.16 | 3/4 | 2,614.20 | 3/4 | 2,366.23 |
| 3 | | 3 | | 3 | | 3 | | 3 | 3,588.86 | 3 | 3,352.93 | 3 | 3,104.97 | 3 | 2,857.00 | 3 | 2,609.03 | 3 | 2,361.06 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,587.13 | 1/4 | 3,347.77 | 1/4 | 3,099.80 | 1/4 | 2,851.83 | 1/4 | 2,603.86 | 1/4 | 2,355.90 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,583.69 | 1/2 | 3,342.60 | 1/2 | 3,094.63 | 1/2 | 2,846.67 | 1/2 | 2,598.70 | 1/2 | 2,350.73 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,580.25 | 3/4 | 3,337.44 | 3/4 | 3,089.47 | 3/4 | 2,841.50 | 3/4 | 2,593.53 | 3/4 | 2,345.56 |
| 4 | | 4 | | 4 | | 4 | | 4 | 3,576.81 | 4 | 3,332.27 | 4 | 3,084.30 | 4 | 2,836.33 | 4 | 2,588.37 | 4 | 2,340.40 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,573.37 | 1/4 | 3,327.10 | 1/4 | 3,079.14 | 1/4 | 2,831.17 | 1/4 | 2,583.20 | 1/4 | 2,335.23 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,568.63 | 1/2 | 3,321.94 | 1/2 | 3,073.97 | 1/2 | 2,826.00 | 1/2 | 2,578.03 | 1/2 | 2,330.07 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,563.89 | 3/4 | 3,316.77 | 3/4 | 3,068.80 | 3/4 | 2,820.84 | 3/4 | 2,572.87 | 3/4 | 2,324.90 |
| 5 | | 5 | | 5 | | 5 | | 5 | 3,559.15 | 5 | 3,311.61 | 5 | 3,063.64 | 5 | 2,815.67 | 5 | 2,567.70 | 5 | 2,319.73 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,554.41 | 1/4 | 3,306.44 | 1/4 | 3,058.47 | 1/4 | 2,810.50 | 1/4 | 2,562.54 | 1/4 | 2,314.57 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,549.24 | 1/2 | 3,301.27 | 1/2 | 3,053.31 | 1/2 | 2,805.34 | 1/2 | 2,557.37 | 1/2 | 2,309.40 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,544.08 | 3/4 | 3,296.11 | 3/4 | 3,048.14 | 3/4 | 2,800.17 | 3/4 | 2,552.20 | 3/4 | 2,304.24 |
| 6 | | 6 | | 6 | | 6 | | 6 | 3,538.91 | 6 | 3,290.94 | 6 | 3,042.97 | 6 | 2,795.01 | 6 | 2,547.04 | 6 | 2,299.07 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,533.74 | 1/4 | 3,285.78 | 1/4 | 3,037.81 | 1/4 | 2,789.84 | 1/4 | 2,541.87 | 1/4 | 2,293.90 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,528.58 | 1/2 | 3,280.61 | 1/2 | 3,032.64 | 1/2 | 2,784.67 | 1/2 | 2,536.71 | 1/2 | 2,288.74 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,523.41 | 3/4 | 3,275.44 | 3/4 | 3,027.48 | 3/4 | 2,779.51 | 3/4 | 2,531.54 | 3/4 | 2,283.57 |
| 7 | | 7 | | 7 | | 7 | | 7 | 3,518.25 | 7 | 3,270.28 | 7 | 3,022.31 | 7 | 2,774.34 | 7 | 2,526.37 | 7 | 2,278.41 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,513.08 | 1/4 | 3,265.11 | 1/4 | 3,017.14 | 1/4 | 2,769.18 | 1/4 | 2,521.21 | 1/4 | 2,273.24 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,507.91 | 1/2 | 3,259.95 | 1/2 | 3,011.98 | 1/2 | 2,764.01 | 1/2 | 2,516.04 | 1/2 | 2,268.07 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,502.75 | 3/4 | 3,254.78 | 3/4 | 3,006.81 | 3/4 | 2,758.84 | 3/4 | 2,510.88 | 3/4 | 2,262.91 |
| 8 | | 8 | | 8 | | 8 | | 8 | 3,497.58 | 8 | 3,249.61 | 8 | 3,001.65 | 8 | 2,753.68 | 8 | 2,505.71 | 8 | 2,257.74 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,492.42 | 1/4 | 3,244.45 | 1/4 | 2,996.48 | 1/4 | 2,748.51 | 1/4 | 2,500.54 | 1/4 | 2,252.58 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,487.25 | 1/2 | 3,239.28 | 1/2 | 2,991.31 | 1/2 | 2,743.35 | 1/2 | 2,495.38 | 1/2 | 2,247.41 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,482.08 | 3/4 | 3,234.12 | 3/4 | 2,986.15 | 3/4 | 2,738.18 | 3/4 | 2,490.21 | 3/4 | 2,242.24 |
| 9 | | 9 | | 9 | | 9 | | 9 | 3,476.92 | 9 | 3,228.95 | 9 | 2,980.98 | 9 | 2,733.01 | 9 | 2,485.05 | 9 | 2,237.08 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,471.75 | 1/4 | 3,223.78 | 1/4 | 2,975.82 | 1/4 | 2,727.85 | 1/4 | 2,479.88 | 1/4 | 2,231.91 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,466.59 | 1/2 | 3,218.62 | 1/2 | 2,970.65 | 1/2 | 2,722.68 | 1/2 | 2,474.71 | 1/2 | 2,226.75 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,461.42 | 3/4 | 3,213.45 | 3/4 | 2,965.48 | 3/4 | 2,717.52 | 3/4 | 2,469.55 | 3/4 | 2,221.58 |
| 10 | | 10 | | 10 | | 10 | | 10 | 3,456.25 | 10 | 3,208.29 | 10 | 2,960.32 | 10 | 2,712.35 | 10 | 2,464.38 | 10 | 2,216.41 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,451.09 | 1/4 | 3,203.12 | 1/4 | 2,955.15 | 1/4 | 2,707.18 | 1/4 | 2,459.22 | 1/4 | 2,211.25 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,445.92 | 1/2 | 3,197.95 | 1/2 | 2,949.99 | 1/2 | 2,702.02 | 1/2 | 2,454.05 | 1/2 | 2,206.08 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,440.76 | 3/4 | 3,192.79 | 3/4 | 2,944.82 | 3/4 | 2,696.85 | 3/4 | 2,448.88 | 3/4 | 2,200.92 |
| 11 | | 11 | | 11 | | 11 | | 11 | 3,435.59 | 11 | 3,187.62 | 11 | 2,939.65 | 11 | 2,691.69 | 11 | 2,443.72 | 11 | 2,195.75 |
| 1/4 | | 1/4 | | 1/4 | | 1/4 | | 1/4 | 3,430.42 | 1/4 | 3,182.46 | 1/4 | 2,934.49 | 1/4 | 2,686.52 | 1/4 | 2,438.55 | 1/4 | 2,190.58 |
| 1/2 | | 1/2 | | 1/2 | | 1/2 | | 1/2 | 3,425.26 | 1/2 | 3,177.29 | 1/2 | 2,929.32 | 1/2 | 2,681.35 | 1/2 | 2,433.39 | 1/2 | 2,185.42 |
| 3/4 | | 3/4 | | 3/4 | | 3/4 | | 3/4 | 3,420.09 | 3/4 | 3,172.12 | 3/4 | 2,924.16 | 3/4 | 2,676.19 | 3/4 | 2,428.22 | 3/4 | 2,180.25 |

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 1'-00" OFF CENTERLINE AND 28'-09" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 11314"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN WHOLE BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 17'-10 1/4"

| IN | 10 FT. | IN | 11 FT. | IN | 12 FT. | IN | 13 FT. | IN | 14 FT. | IN | 15 FT. | IN | 16 FT. | IN | 17 FT. | IN | 18 FT. | IN | 19 FT. |
|-----|----------|-----|----------|-----|----------|-----|----------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 0 | 1,927.12 | 0 | 1,679.15 | 0 | 1,431.18 | 0 | 1,183.21 | 0 | 935.25 | 0 | 687.52 | 0 | 439.71 | 0 | 191.75 | 0 | | 0 | |
| 1/4 | 1,921.95 | 1/4 | 1,673.98 | 1/4 | 1,426.02 | 1/4 | 1,178.05 | 1/4 | 930.08 | 1/4 | 682.36 | 1/4 | 434.54 | 1/4 | 186.59 | 1/4 | | 1/4 | |
| 1/2 | 1,916.79 | 1/2 | 1,668.82 | 1/2 | 1,420.85 | 1/2 | 1,172.88 | 1/2 | 924.91 | 1/2 | 677.21 | 1/2 | 429.38 | 1/2 | 181.42 | 1/2 | | 1/2 | |
| 3/4 | 1,911.62 | 3/4 | 1,663.65 | 3/4 | 1,415.68 | 3/4 | 1,167.72 | 3/4 | 919.75 | 3/4 | 672.05 | 3/4 | 424.21 | 3/4 | 176.26 | 3/4 | | 3/4 | |
| 1 | 1,906.45 | 1 | 1,658.49 | 1 | 1,410.52 | 1 | 1,162.55 | 1 | 914.58 | 1 | 666.90 | 1 | 419.05 | 1 | 171.09 | 1 | | 1 | |
| 1/4 | 1,901.29 | 1/4 | 1,653.32 | 1/4 | 1,405.35 | 1/4 | 1,157.38 | 1/4 | 909.42 | 1/4 | 661.74 | 1/4 | 413.88 | 1/4 | 165.93 | 1/4 | | 1/4 | |
| 1/2 | 1,896.12 | 1/2 | 1,648.15 | 1/2 | 1,400.19 | 1/2 | 1,152.22 | 1/2 | 904.25 | 1/2 | 656.58 | 1/2 | 408.71 | 1/2 | 160.76 | 1/2 | | 1/2 | |
| 3/4 | 1,890.96 | 3/4 | 1,642.99 | 3/4 | 1,395.02 | 3/4 | 1,147.05 | 3/4 | 899.08 | 3/4 | 651.43 | 3/4 | 403.55 | 3/4 | 155.59 | 3/4 | | 3/4 | |
| 2 | 1,885.79 | 2 | 1,637.82 | 2 | 1,389.85 | 2 | 1,141.89 | 2 | 893.92 | 2 | 646.27 | 2 | 398.38 | 2 | 150.43 | 2 | | 2 | |
| 1/4 | 1,880.62 | 1/4 | 1,632.66 | 1/4 | 1,384.69 | 1/4 | 1,136.72 | 1/4 | 888.75 | 1/4 | 641.12 | 1/4 | 393.22 | 1/4 | 145.26 | 1/4 | | 1/4 | |
| 1/2 | 1,875.46 | 1/2 | 1,627.49 | 1/2 | 1,379.52 | 1/2 | 1,131.55 | 1/2 | 883.59 | 1/2 | 635.96 | 1/2 | 388.05 | 1/2 | 140.10 | 1/2 | | 1/2 | |
| 3/4 | 1,870.29 | 3/4 | 1,622.32 | 3/4 | 1,374.36 | 3/4 | 1,126.39 | 3/4 | 878.42 | 3/4 | 630.80 | 3/4 | 382.89 | 3/4 | 134.93 | 3/4 | | 3/4 | |
| 3 | 1,865.13 | 3 | 1,617.16 | 3 | 1,369.19 | 3 | 1,121.22 | 3 | 873.25 | 3 | 625.65 | 3 | 377.72 | 3 | 129.77 | 3 | | 3 | |
| 1/4 | 1,859.96 | 1/4 | 1,611.99 | 1/4 | 1,364.02 | 1/4 | 1,116.06 | 1/4 | 868.09 | 1/4 | 620.49 | 1/4 | 372.55 | 1/4 | 124.60 | 1/4 | | 1/4 | |
| 1/2 | 1,854.79 | 1/2 | 1,606.83 | 1/2 | 1,358.86 | 1/2 | 1,110.89 | 1/2 | 862.92 | 1/2 | 615.33 | 1/2 | 367.39 | 1/2 | 119.43 | 1/2 | | 1/2 | |
| 3/4 | 1,849.63 | 3/4 | 1,601.66 | 3/4 | 1,353.69 | 3/4 | 1,105.72 | 3/4 | 857.76 | 3/4 | 610.17 | 3/4 | 362.22 | 3/4 | 114.27 | 3/4 | | 3/4 | |
| 4 | 1,844.46 | 4 | 1,596.49 | 4 | 1,348.53 | 4 | 1,100.56 | 4 | 852.59 | 4 | 605.01 | 4 | 357.06 | 4 | 109.10 | 4 | | 4 | |
| 1/4 | 1,839.30 | 1/4 | 1,591.33 | 1/4 | 1,343.36 | 1/4 | 1,095.39 | 1/4 | 847.42 | 1/4 | 599.85 | 1/4 | 351.89 | 1/4 | 103.94 | 1/4 | | 1/4 | |
| 1/2 | 1,834.13 | 1/2 | 1,586.16 | 1/2 | 1,338.19 | 1/2 | 1,090.23 | 1/2 | 842.26 | 1/2 | 594.68 | 1/2 | 346.73 | 1/2 | 98.77 | 1/2 | | 1/2 | |
| 3/4 | 1,828.96 | 3/4 | 1,581.00 | 3/4 | 1,333.03 | 3/4 | 1,085.06 | 3/4 | 837.09 | 3/4 | 589.52 | 3/4 | 341.56 | 3/4 | 93.61 | 3/4 | | 3/4 | |
| 5 | 1,823.80 | 5 | 1,575.83 | 5 | 1,327.86 | 5 | 1,079.89 | 5 | 831.93 | 5 | 584.35 | 5 | 336.39 | 5 | 88.44 | 5 | | 5 | |
| 1/4 | 1,818.63 | 1/4 | 1,570.66 | 1/4 | 1,322.70 | 1/4 | 1,074.73 | 1/4 | 826.76 | 1/4 | 579.19 | 1/4 | 331.23 | 1/4 | 83.27 | 1/4 | | 1/4 | |
| 1/2 | 1,813.47 | 1/2 | 1,565.50 | 1/2 | 1,317.53 | 1/2 | 1,069.56 | 1/2 | 821.60 | 1/2 | 574.02 | 1/2 | 326.06 | 1/2 | 78.11 | 1/2 | | 1/2 | |
| 3/4 | 1,808.30 | 3/4 | 1,560.33 | 3/4 | 1,312.36 | 3/4 | 1,064.40 | 3/4 | 816.44 | 3/4 | 568.86 | 3/4 | 320.90 | 3/4 | 72.94 | 3/4 | | 3/4 | |
| 6 | 1,803.13 | 6 | 1,555.17 | 6 | 1,307.20 | 6 | 1,059.23 | 6 | 811.28 | 6 | 563.69 | 6 | 315.73 | 6 | 67.78 | 6 | | 6 | |
| 1/4 | 1,797.97 | 1/4 | 1,550.00 | 1/4 | 1,302.03 | 1/4 | 1,054.06 | 1/4 | 806.11 | 1/4 | 558.53 | 1/4 | 310.57 | 1/4 | 62.61 | 1/4 | | 1/4 | |
| 1/2 | 1,792.80 | 1/2 | 1,544.83 | 1/2 | 1,296.87 | 1/2 | 1,048.90 | 1/2 | 800.96 | 1/2 | 553.36 | 1/2 | 305.40 | 1/2 | 57.45 | 1/2 | | 1/2 | |
| 3/4 | 1,787.64 | 3/4 | 1,539.67 | 3/4 | 1,291.70 | 3/4 | 1,043.73 | 3/4 | 795.80 | 3/4 | 548.19 | 3/4 | 300.23 | 3/4 | 52.28 | 3/4 | | 3/4 | |
| 7 | 1,782.47 | 7 | 1,534.50 | 7 | 1,286.53 | 7 | 1,038.57 | 7 | 790.64 | 7 | 543.02 | 7 | 295.07 | 7 | 47.12 | 7 | | 7 | |
| 1/4 | 1,777.30 | 1/4 | 1,529.34 | 1/4 | 1,281.37 | 1/4 | 1,033.40 | 1/4 | 785.49 | 1/4 | 537.86 | 1/4 | 289.90 | 1/4 | 41.95 | 1/4 | | 1/4 | |
| 1/2 | 1,772.14 | 1/2 | 1,524.17 | 1/2 | 1,276.20 | 1/2 | 1,028.23 | 1/2 | 780.33 | 1/2 | 532.69 | 1/2 | 284.74 | 1/2 | 37.21 | 1/2 | | 1/2 | |
| 3/4 | 1,766.97 | 3/4 | 1,519.00 | 3/4 | 1,271.04 | 3/4 | 1,023.07 | 3/4 | 775.17 | 3/4 | 527.53 | 3/4 | 279.57 | 3/4 | 32.48 | 3/4 | | 3/4 | |
| 8 | 1,761.81 | 8 | 1,513.84 | 8 | 1,265.87 | 8 | 1,017.90 | 8 | 770.01 | 8 | 522.36 | 8 | 274.41 | 8 | 27.74 | 8 | | 8 | |
| 1/4 | 1,756.64 | 1/4 | 1,508.67 | 1/4 | 1,260.70 | 1/4 | 1,012.74 | 1/4 | 764.86 | 1/4 | 517.19 | 1/4 | 269.24 | 1/4 | 23.01 | 1/4 | | 1/4 | |
| 1/2 | 1,751.47 | 1/2 | 1,503.51 | 1/2 | 1,255.54 | 1/2 | 1,007.57 | 1/2 | 759.70 | 1/2 | 512.03 | 1/2 | 264.07 | 1/2 | 19.56 | 1/2 | | 1/2 | |
| 3/4 | 1,746.31 | 3/4 | 1,498.34 | 3/4 | 1,250.37 | 3/4 | 1,002.40 | 3/4 | 754.55 | 3/4 | 506.86 | 3/4 | 258.91 | 3/4 | 16.12 | 3/4 | | 3/4 | |
| 9 | 1,741.14 | 9 | 1,493.17 | 9 | 1,245.21 | 9 | 997.24 | 9 | 749.39 | 9 | 501.70 | 9 | 253.74 | 9 | 12.68 | 9 | | 9 | |
| 1/4 | 1,735.98 | 1/4 | 1,488.01 | 1/4 | 1,240.04 | 1/4 | 992.07 | 1/4 | 744.23 | 1/4 | 496.53 | 1/4 | 248.58 | 1/4 | 9.23 | 1/4 | | 1/4 | |
| 1/2 | 1,730.81 | 1/2 | 1,482.84 | 1/2 | 1,234.87 | 1/2 | 986.91 | 1/2 | 739.08 | 1/2 | 491.37 | 1/2 | 243.41 | 1/2 | 7.51 | 1/2 | | 1/2 | |
| 3/4 | 1,725.64 | 3/4 | 1,477.68 | 3/4 | 1,229.71 | 3/4 | 981.74 | 3/4 | 733.92 | 3/4 | 486.20 | 3/4 | 238.25 | 3/4 | 5.79 | 3/4 | | 3/4 | |
| 10 | 1,720.48 | 10 | 1,472.51 | 10 | 1,224.54 | 10 | 976.57 | 10 | 728.77 | 10 | 481.03 | 10 | 233.08 | 10 | 4.07 | 10 | | 10 | |
| 1/4 | 1,715.31 | 1/4 | 1,467.34 | 1/4 | 1,219.38 | 1/4 | 971.41 | 1/4 | 723.61 | 1/4 | 475.87 | 1/4 | 227.91 | 1/4 | 2.35 | 1/4 | | 1/4 | |
| 1/2 | 1,710.15 | 1/2 | 1,462.18 | 1/2 | 1,214.21 | 1/2 | 966.24 | 1/2 | 718.46 | 1/2 | 470.70 | 1/2 | 222.75 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,704.98 | 3/4 | 1,457.01 | 3/4 | 1,209.04 | 3/4 | 961.08 | 3/4 | 713.30 | 3/4 | 465.54 | 3/4 | 217.58 | 3/4 | | 3/4 | | 3/4 | |
| 11 | 1,699.81 | 11 | 1,451.85 | 11 | 1,203.88 | 11 | 955.91 | 11 | 708.14 | 11 | 460.37 | 11 | 212.42 | 11 | | 11 | | 11 | |
| 1/4 | 1,694.65 | 1/4 | 1,446.68 | 1/4 | 1,198.71 | 1/4 | 950.74 | 1/4 | 702.99 | 1/4 | 455.21 | 1/4 | 207.25 | 1/4 | | 1/4 | | 1/4 | |
| 1/2 | 1,689.48 | 1/2 | 1,441.51 | 1/2 | 1,193.55 | 1/2 | 945.58 | 1/2 | 697.83 | 1/2 | 450.04 | 1/2 | 202.09 | 1/2 | | 1/2 | | 1/2 | |
| 3/4 | 1,684.32 | 3/4 | 1,436.35 | 3/4 | 1,188.38 | 3/4 | 940.41 | 3/4 | 692.68 | 3/4 | 444.87 | 3/4 | 196.92 | 3/4 | | 3/4 | | 3/4 | |

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 07/13/2005 CL - SW
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