



# BARGE "KIRBY 23851"

# PORT ULLAGE TABLE

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

FORMERLY "B 2701"

GAUGE HEIGHT 22'-03 1/2"

IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.
0		0	11,772.02	0	11,429.11	0	10,946.58	0	10,364.34	0	9,709.93	0	9,000.63	0	8,250.21	0	7,470.44	0	6,671.86
1/4		1/4	11,767.02	1/4	11,420.32	1/4	10,935.40	1/4	10,351.42	1/4	9,695.69	1/4	8,985.40	1/4	8,234.25	1/4	7,453.97	1/4	6,655.09
1/2		1/2	11,762.02	1/2	11,411.52	1/2	10,924.21	1/2	10,338.50	1/2	9,681.45	1/2	8,970.17	1/2	8,218.29	1/2	7,437.50	1/2	6,638.33
3/4		3/4	11,756.55	3/4	11,402.46	3/4	10,912.79	3/4	10,325.40	3/4	9,667.08	3/4	8,954.83	3/4	8,202.24	3/4	7,420.99	3/4	6,621.55
1		1	11,751.08	1	11,393.40	1	10,901.36	1	10,312.30	1	9,652.70	1	8,939.49	1	8,186.20	1	7,404.48	1	6,604.77
1/4		1/4	11,745.61	1/4	11,384.34	1/4	10,889.93	1/4	10,299.20	1/4	9,638.33	1/4	8,924.15	1/4	8,170.16	1/4	7,387.96	1/4	6,587.99
1/2		1/2	11,740.14	1/2	11,375.29	1/2	10,878.50	1/2	10,286.09	1/2	9,623.95	1/2	8,908.81	1/2	8,154.12	1/2	7,371.45	1/2	6,571.21
3/4		3/4	11,734.29	3/4	11,366.14	3/4	10,866.99	3/4	10,272.93	3/4	9,609.53	3/4	8,893.44	3/4	8,138.06	3/4	7,354.92	3/4	6,554.43
2		2	11,728.43	2	11,357.00	2	10,855.48	2	10,259.76	2	9,595.11	2	8,878.07	2	8,122.00	2	7,338.39	2	6,537.64
1/4		1/4	11,722.57	1/4	11,347.86	1/4	10,843.96	1/4	10,246.59	1/4	9,580.68	1/4	8,862.70	1/4	8,105.94	1/4	7,321.86	1/4	6,520.86
1/2		1/2	11,716.71	1/2	11,338.71	1/2	10,832.45	1/2	10,233.43	1/2	9,566.26	1/2	8,847.33	1/2	8,089.88	1/2	7,305.33	1/2	6,504.07
3/4		3/4	11,710.48	3/4	11,329.24	3/4	10,820.71	3/4	10,220.09	3/4	9,551.71	3/4	8,831.86	3/4	8,073.74	3/4	7,288.76	3/4	6,487.27
3		3	11,704.24	3	11,319.77	3	10,808.96	3	10,206.75	3	9,537.15	3	8,816.39	3	8,057.61	3	7,272.18	3	6,470.46
1/4		1/4	11,698.00	1/4	11,310.30	1/4	10,797.22	1/4	10,193.41	1/4	9,522.60	1/4	8,800.92	1/4	8,041.47	1/4	7,255.60	1/4	6,453.66
1/2		1/2	11,691.76	1/2	11,300.83	1/2	10,785.48	1/2	10,180.07	1/2	9,508.05	1/2	8,785.45	1/2	8,025.33	1/2	7,239.02	1/2	6,436.86
3/4		3/4	11,685.17	3/4	11,291.26	3/4	10,773.65	3/4	10,166.67	3/4	9,493.45	3/4	8,769.95	3/4	8,009.17	3/4	7,222.43	3/4	6,420.04
4		4	11,678.58	4	11,281.68	4	10,761.83	4	10,153.27	4	9,478.84	4	8,754.44	4	7,993.01	4	7,205.84	4	6,403.23
1/4		1/4	11,671.99	1/4	11,272.10	1/4	10,750.01	1/4	10,139.87	1/4	9,464.24	1/4	8,738.93	1/4	7,976.85	1/4	7,189.26	1/4	6,386.41
1/2		1/2	11,665.40	1/2	11,262.52	1/2	10,738.19	1/2	10,126.48	1/2	9,449.64	1/2	8,723.43	1/2	7,960.69	1/2	7,172.67	1/2	6,369.59
3/4		3/4	11,658.48	3/4	11,252.65	3/4	10,726.15	3/4	10,112.91	3/4	9,434.92	3/4	8,707.83	3/4	7,944.47	3/4	7,156.04	3/4	6,352.77
5		5	11,651.56	5	11,242.77	5	10,714.11	5	10,099.34	5	9,420.19	5	8,692.24	5	7,928.25	5	7,139.42	5	6,335.95
1/4		1/4	11,644.64	1/4	11,232.90	1/4	10,702.07	1/4	10,085.78	1/4	9,405.46	1/4	8,676.64	1/4	7,912.03	1/4	7,122.79	1/4	6,319.13
1/2		1/2	11,637.71	1/2	11,223.02	1/2	10,690.02	1/2	10,072.21	1/2	9,390.74	1/2	8,661.05	1/2	7,895.81	1/2	7,106.17	1/2	6,302.31
3/4		3/4	11,630.48	3/4	11,213.04	3/4	10,677.91	3/4	10,058.59	3/4	9,375.97	3/4	8,645.42	3/4	7,879.56	3/4	7,089.52	3/4	6,285.48
6		6	11,623.24	6	11,203.06	6	10,665.80	6	10,044.96	6	9,361.20	6	8,629.79	6	7,863.32	6	7,072.88	6	6,268.64
1/4		1/4	11,616.00	1/4	11,193.08	1/4	10,653.68	1/4	10,031.34	1/4	9,346.43	1/4	8,614.15	1/4	7,847.08	1/4	7,056.24	1/4	6,251.81
1/2		1/2	11,608.76	1/2	11,183.09	1/2	10,641.57	1/2	10,017.71	1/2	9,331.67	1/2	8,598.52	1/2	7,830.83	1/2	7,039.59	1/2	6,234.98
3/4	11,842.69	3/4	11,601.12	3/4	11,172.74	3/4	10,629.24	3/4	10,003.93	3/4	9,316.78	3/4	8,582.80	3/4	7,814.53	3/4	7,022.92	3/4	6,218.14
7	11,841.36	7	11,593.48	7	11,162.38	7	10,616.92	7	9,990.15	7	9,301.89	7	8,567.08	7	7,798.23	7	7,006.25	7	6,201.30
1/4	11,840.02	1/4	11,585.83	1/4	11,152.02	1/4	10,604.59	1/4	9,976.37	1/4	9,287.01	1/4	8,551.36	1/4	7,781.92	1/4	6,989.58	1/4	6,184.46
1/2	11,838.69	1/2	11,578.19	1/2	11,141.67	1/2	10,592.26	1/2	9,962.59	1/2	9,272.12	1/2	8,535.64	1/2	7,765.62	1/2	6,972.90	1/2	6,167.62
3/4	11,836.26	3/4	11,570.43	3/4	11,131.18	3/4	10,579.86	3/4	9,948.76	3/4	9,257.18	3/4	8,519.90	3/4	7,749.29	3/4	6,956.22	3/4	6,150.77
8	11,833.83	8	11,562.68	8	11,120.70	8	10,567.46	8	9,934.93	8	9,242.25	8	8,504.15	8	7,732.96	8	6,939.54	8	6,133.93
1/4	11,831.40	1/4	11,554.92	1/4	11,110.22	1/4	10,555.06	1/4	9,921.09	1/4	9,227.32	1/4	8,488.41	1/4	7,716.64	1/4	6,922.85	1/4	6,117.08
1/2	11,828.98	1/2	11,547.17	1/2	11,099.74	1/2	10,542.67	1/2	9,907.26	1/2	9,212.38	1/2	8,472.67	1/2	7,700.31	1/2	6,906.17	1/2	6,100.24
3/4	11,825.70	3/4	11,539.01	3/4	11,088.99	3/4	10,530.07	3/4	9,893.27	3/4	9,197.33	3/4	8,456.83	3/4	7,683.93	3/4	6,889.45	3/4	6,083.39
9	11,822.42	9	11,530.86	9	11,078.24	9	10,517.48	9	9,879.29	9	9,182.29	9	8,441.00	9	7,667.55	9	6,872.74	9	6,066.55
1/4	11,819.14	1/4	11,522.70	1/4	11,067.49	1/4	10,504.88	1/4	9,865.30	1/4	9,167.24	1/4	8,425.17	1/4	7,651.17	1/4	6,856.02	1/4	6,049.70
1/2	11,815.86	1/2	11,514.55	1/2	11,056.74	1/2	10,492.29	1/2	9,851.31	1/2	9,152.19	1/2	8,409.33	1/2	7,634.79	1/2	6,839.31	1/2	6,032.86
3/4	11,811.91	3/4	11,506.25	3/4	11,045.89	3/4	10,479.62	3/4	9,837.27	3/4	9,137.11	3/4	8,393.48	3/4	7,618.39	3/4	6,822.58	3/4	6,016.01
10	11,807.96	10	11,497.95	10	11,035.05	10	10,466.95	10	9,823.23	10	9,122.02	10	8,377.62	10	7,601.99	10	6,805.86	10	5,999.17
1/4	11,804.02	1/4	11,489.65	1/4	11,024.20	1/4	10,454.29	1/4	9,809.18	1/4	9,106.94	1/4	8,361.76	1/4	7,585.59	1/4	6,789.13	1/4	5,982.32
1/2	11,800.07	1/2	11,481.36	1/2	11,013.36	1/2	10,441.62	1/2	9,795.14	1/2	9,091.86	1/2	8,345.90	1/2	7,569.19	1/2	6,772.40	1/2	5,965.48
3/4	11,795.56	3/4	11,472.69	3/4	11,002.26	3/4	10,428.76	3/4	9,780.96	3/4	9,076.67	3/4	8,329.96	3/4	7,552.74	3/4	6,755.65	3/4	5,948.61
11	11,791.05	11	11,464.02	11	10,991.15	11	10,415.90	11	9,766.77	11	9,061.48	11	8,314.02	11	7,536.29	11	6,738.89	11	5,931.75
1/4	11,786.54	1/4	11,455.36	1/4	10,980.05	1/4	10,403.05	1/4	9,752.59	1/4	9,046.29	1/4	8,298.08	1/4	7,519.83	1/4	6,722.14	1/4	5,914.89
1/2	11,782.02	1/2	11,446.69	1/2	10,968.95	1/2	10,390.19	1/2	9,738.40	1/2	9,031.09	1/2	8,282.14	1/2	7,503.38	1/2	6,705.38	1/2	5,898.02
3/4	11,777.02	3/4	11,437.90	3/4	10,957.77	3/4	10,377.27	3/4	9,724.17	3/4	9,015.86	3/4	8,266.18	3/4	7,486.91	3/4	6,688.62	3/4	5,881.18

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 NEAR CENTER OF TANK.  
 CAPACITIES ALLOW FOR CONTRACTION OF TANK SHELL FOR -28 DEGREES F.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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# BARGE "KIRBY 23851"

## PORT ULLAGE TABLE

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

FORMERLY "B 2701"

GAUGE HEIGHT 22'-03 1/2"

IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.
0	5,864.33	0	5,057.54	0	4,261.07	0	3,484.90	0	2,739.71	0	2,037.49	0	1,392.38	0	822.45	0	354.25	0	39.89
1/4	5,847.49	1/4	5,040.81	1/4	4,244.67	1/4	3,469.05	1/4	2,724.63	1/4	2,023.45	1/4	1,379.71	1/4	811.61	1/4	345.96	1/4	35.80
1/2	5,830.64	1/2	5,024.09	1/2	4,228.26	1/2	3,453.19	1/2	2,709.55	1/2	2,009.40	1/2	1,367.05	1/2	800.76	1/2	337.67	1/2	31.71
3/4	5,813.80	3/4	5,007.37	3/4	4,211.86	3/4	3,437.33	3/4	2,694.46	3/4	1,995.36	3/4	1,354.38	3/4	789.92	3/4	329.37	3/4	28.24
1	5,796.95	1	4,990.64	1	4,195.46	1	3,421.48	1	2,679.38	1	1,981.31	1	1,341.71	1	779.08	1	321.08	1	24.77
1/4	5,780.11	1/4	4,973.92	1/4	4,179.06	1/4	3,405.62	1/4	2,664.30	1/4	1,967.26	1/4	1,329.05	1/4	768.24	1/4	312.79	1/4	21.30
1/2	5,763.26	1/2	4,957.19	1/2	4,162.67	1/2	3,389.76	1/2	2,649.21	1/2	1,953.21	1/2	1,316.38	1/2	757.40	1/2	304.50	1/2	17.83
3/4	5,746.42	3/4	4,940.51	3/4	4,146.34	3/4	3,374.01	3/4	2,634.28	3/4	1,939.38	3/4	1,303.98	3/4	746.92	3/4	296.74	3/4	15.15
2	5,729.57	2	4,923.82	2	4,130.02	2	3,358.26	2	2,619.34	2	1,925.55	2	1,291.58	2	736.44	2	288.99	2	12.48
1/4	5,712.73	1/4	4,907.14	1/4	4,113.70	1/4	3,342.51	1/4	2,604.41	1/4	1,911.71	1/4	1,279.18	1/4	725.96	1/4	281.23	1/4	9.80
1/2	5,695.88	1/2	4,890.45	1/2	4,097.38	1/2	3,326.76	1/2	2,589.48	1/2	1,897.88	1/2	1,266.79	1/2	715.48	1/2	273.48	1/2	7.12
3/4	5,679.04	3/4	4,873.76	3/4	4,081.05	3/4	3,311.01	3/4	2,574.55	3/4	1,884.05	3/4	1,254.39	3/4	704.99	3/4	265.73	3/4	5.64
3	5,662.20	3	4,857.07	3	4,064.73	3	3,295.26	3	2,559.62	3	1,870.21	3	1,242.00	3	694.51	3	257.98	3	4.17
1/4	5,645.36	1/4	4,840.38	1/4	4,048.40	1/4	3,279.51	1/4	2,544.69	1/4	1,856.38	1/4	1,229.61	1/4	684.03	1/4	250.23	1/4	2.69
1/2	5,628.52	1/2	4,823.69	1/2	4,032.07	1/2	3,263.76	1/2	2,529.76	1/2	1,842.55	1/2	1,217.21	1/2	673.55	1/2	242.48	1/2	1.21
3/4	5,611.69	3/4	4,807.05	3/4	4,015.83	3/4	3,248.13	3/4	2,514.99	3/4	1,828.93	3/4	1,205.09	3/4	663.45	3/4	235.15	3/4	
4	5,594.86	4	4,790.42	4	3,999.58	4	3,232.50	4	2,500.23	4	1,815.31	4	1,192.98	4	653.36	4	227.83	4	
1/4	5,578.02	1/4	4,773.78	1/4	3,983.34	1/4	3,216.87	1/4	2,485.46	1/4	1,801.69	1/4	1,180.86	1/4	643.26	1/4	220.51	1/4	
1/2	5,561.19	1/2	4,757.14	1/2	3,967.09	1/2	3,201.24	1/2	2,470.69	1/2	1,788.07	1/2	1,168.74	1/2	633.17	1/2	213.19	1/2	
3/4	5,544.36	3/4	4,740.50	3/4	3,950.85	3/4	3,185.61	3/4	2,455.92	3/4	1,774.45	3/4	1,156.62	3/4	623.07	3/4	206.18	3/4	
5	5,527.54	5	4,723.86	5	3,934.61	5	3,169.98	5	2,441.15	5	1,760.82	5	1,144.51	5	612.98	5	199.18	5	
1/4	5,510.71	1/4	4,707.21	1/4	3,918.36	1/4	3,154.34	1/4	2,426.39	1/4	1,747.20	1/4	1,132.40	1/4	602.88	1/4	192.17	1/4	
1/2	5,493.88	1/2	4,690.57	1/2	3,902.12	1/2	3,138.71	1/2	2,411.62	1/2	1,733.57	1/2	1,120.29	1/2	592.79	1/2	185.17	1/2	
3/4	5,477.07	3/4	4,673.98	3/4	3,885.96	3/4	3,123.21	3/4	2,397.02	3/4	1,720.17	3/4	1,108.46	3/4	583.09	3/4	178.49	3/4	
6	5,460.25	6	4,657.39	6	3,869.80	6	3,107.71	6	2,382.42	6	1,706.77	6	1,096.64	6	573.40	6	171.82	6	
1/4	5,443.43	1/4	4,640.80	1/4	3,853.64	1/4	3,092.21	1/4	2,367.81	1/4	1,693.37	1/4	1,084.82	1/4	563.71	1/4	165.15	1/4	
1/2	5,426.62	1/2	4,624.21	1/2	3,837.48	1/2	3,076.71	1/2	2,353.21	1/2	1,679.98	1/2	1,073.00	1/2	554.02	1/2	158.48	1/2	
3/4	5,409.81	3/4	4,607.63	3/4	3,821.32	3/4	3,061.21	3/4	2,338.62	3/4	1,666.58	3/4	1,061.18	3/4	544.33	3/4	152.14	3/4	
7	5,393.00	7	4,591.05	7	3,805.17	7	3,045.70	7	2,324.02	7	1,653.19	7	1,049.36	7	534.64	7	145.81	7	
1/4	5,376.19	1/4	4,574.46	1/4	3,789.01	1/4	3,030.20	1/4	2,309.43	1/4	1,639.80	1/4	1,037.53	1/4	524.95	1/4	139.48	1/4	
1/2	5,359.38	1/2	4,557.88	1/2	3,772.86	1/2	3,014.69	1/2	2,294.83	1/2	1,626.40	1/2	1,025.71	1/2	515.26	1/2	133.14	1/2	
3/4	5,342.59	3/4	4,541.34	3/4	3,756.79	3/4	2,999.32	3/4	2,280.41	3/4	1,613.24	3/4	1,014.20	3/4	506.00	3/4	127.19	3/4	
8	5,325.81	8	4,524.81	8	3,740.73	8	2,983.95	8	2,265.99	8	1,600.07	8	1,002.69	8	496.74	8	121.24	8	
1/4	5,309.02	1/4	4,508.27	1/4	3,724.66	1/4	2,968.58	1/4	2,251.56	1/4	1,586.90	1/4	991.18	1/4	487.48	1/4	115.29	1/4	
1/2	5,292.24	1/2	4,491.74	1/2	3,708.59	1/2	2,953.21	1/2	2,237.14	1/2	1,573.74	1/2	979.67	1/2	478.21	1/2	109.33	1/2	
3/4	5,275.45	3/4	4,475.21	3/4	3,692.54	3/4	2,937.84	3/4	2,222.72	3/4	1,560.57	3/4	968.15	3/4	468.96	3/4	103.78	3/4	
9	5,258.65	9	4,458.68	9	3,676.48	9	2,922.48	9	2,208.30	9	1,547.40	9	956.64	9	459.70	9	98.23	9	
1/4	5,241.86	1/4	4,442.15	1/4	3,660.42	1/4	2,907.11	1/4	2,193.87	1/4	1,534.24	1/4	945.13	1/4	450.45	1/4	92.67	1/4	
1/2	5,225.07	1/2	4,425.62	1/2	3,644.36	1/2	2,891.74	1/2	2,179.45	1/2	1,521.07	1/2	933.62	1/2	441.19	1/2	87.12	1/2	
3/4	5,208.31	3/4	4,409.15	3/4	3,628.39	3/4	2,876.51	3/4	2,165.21	3/4	1,508.15	3/4	922.43	3/4	432.39	3/4	82.00	3/4	
10	5,191.55	10	4,392.68	10	3,612.42	10	2,861.27	10	2,150.98	10	1,495.24	10	911.25	10	423.59	10	76.88	10	
1/4	5,174.79	1/4	4,376.21	1/4	3,596.45	1/4	2,846.04	1/4	2,136.74	1/4	1,482.32	1/4	900.06	1/4	414.80	1/4	71.76	1/4	
1/2	5,158.02	1/2	4,359.74	1/2	3,580.48	1/2	2,830.81	1/2	2,122.50	1/2	1,469.40	1/2	888.88	1/2	406.00	1/2	66.64	1/2	
3/4	5,141.26	3/4	4,343.27	3/4	3,564.51	3/4	2,815.58	3/4	2,108.27	3/4	1,456.48	3/4	877.70	3/4	397.21	3/4	62.00	3/4	
11	5,124.50	11	4,326.81	11	3,548.55	11	2,800.34	11	2,094.04	11	1,443.56	11	866.51	11	388.42	11	57.36	11	
1/4	5,107.74	1/4	4,310.34	1/4	3,532.58	1/4	2,785.11	1/4	2,079.80	1/4	1,430.64	1/4	855.33	1/4	379.62	1/4	52.71	1/4	
1/2	5,090.98	1/2	4,293.88	1/2	3,516.62	1/2	2,769.88	1/2	2,065.57	1/2	1,417.71	1/2	844.14	1/2	370.83	1/2	48.07	1/2	
3/4	5,074.26	3/4	4,277.48	3/4	3,500.76	3/4	2,754.80	3/4	2,051.53	3/4	1,405.05	3/4	833.30	3/4	362.54	3/4	43.98	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/1967 CM  
RECOMPUTED: 08/23/2024 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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



# BARGE "KIRBY 23851"

## STBD ULLAGE TABLE

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

FORMERLY "B 2701"

GAUGE HEIGHT 22'-03 1/2"

IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.
0		0	11,780.79	0	11,437.61	0	10,954.73	0	10,372.05	0	9,717.11	0	9,007.27	0	8,256.31	0	7,475.96	0	6,676.79
1/4		1/4	11,775.77	1/4	11,428.80	1/4	10,943.53	1/4	10,359.12	1/4	9,702.86	1/4	8,992.03	1/4	8,240.33	1/4	7,459.48	1/4	6,660.01
1/2		1/2	11,770.76	1/2	11,420.00	1/2	10,932.33	1/2	10,346.19	1/2	9,688.62	1/2	8,976.79	1/2	8,224.36	1/2	7,443.00	1/2	6,643.24
3/4		3/4	11,765.29	3/4	11,410.94	3/4	10,920.89	3/4	10,333.07	3/4	9,674.23	3/4	8,961.44	3/4	8,208.30	3/4	7,426.47	3/4	6,626.45
1		1	11,759.81	1	11,401.88	1	10,909.45	1	10,319.95	1	9,659.85	1	8,946.10	1	8,192.25	1	7,409.94	1	6,609.65
1/4		1/4	11,754.33	1/4	11,392.82	1/4	10,898.01	1/4	10,306.83	1/4	9,645.46	1/4	8,930.75	1/4	8,176.20	1/4	7,393.41	1/4	6,592.86
1/2		1/2	11,748.86	1/2	11,383.76	1/2	10,886.57	1/2	10,293.71	1/2	9,631.07	1/2	8,915.40	1/2	8,160.14	1/2	7,376.88	1/2	6,576.07
3/4		3/4	11,743.00	3/4	11,374.61	3/4	10,875.05	3/4	10,280.54	3/4	9,616.64	3/4	8,900.02	3/4	8,144.07	3/4	7,360.34	3/4	6,559.27
2		2	11,737.14	2	11,365.45	2	10,863.54	2	10,267.37	2	9,602.20	2	8,884.64	2	8,128.00	2	7,343.80	2	6,542.46
1/4		1/4	11,731.29	1/4	11,356.30	1/4	10,852.02	1/4	10,254.20	1/4	9,587.77	1/4	8,869.26	1/4	8,111.93	1/4	7,327.26	1/4	6,525.66
1/2		1/2	11,725.43	1/2	11,347.14	1/2	10,840.50	1/2	10,241.02	1/2	9,573.33	1/2	8,853.88	1/2	8,095.86	1/2	7,310.71	1/2	6,508.86
3/4		3/4	11,719.19	3/4	11,337.67	3/4	10,828.75	3/4	10,227.67	3/4	9,558.77	3/4	8,838.40	3/4	8,079.71	3/4	7,294.13	3/4	6,492.04
3		3	11,712.95	3	11,328.19	3	10,817.00	3	10,214.32	3	9,544.20	3	8,822.92	3	8,063.56	3	7,277.55	3	6,475.23
1/4		1/4	11,706.71	1/4	11,318.71	1/4	10,805.25	1/4	10,200.97	1/4	9,529.64	1/4	8,807.43	1/4	8,047.41	1/4	7,260.96	1/4	6,458.41
1/2		1/2	11,700.48	1/2	11,309.24	1/2	10,793.50	1/2	10,187.62	1/2	9,515.07	1/2	8,791.95	1/2	8,031.26	1/2	7,244.38	1/2	6,441.60
3/4		3/4	11,693.88	3/4	11,299.65	3/4	10,781.67	3/4	10,174.21	3/4	9,500.46	3/4	8,776.43	3/4	8,015.09	3/4	7,227.78	3/4	6,424.77
4		4	11,687.29	4	11,290.07	4	10,769.83	4	10,160.80	4	9,485.85	4	8,760.92	4	7,998.92	4	7,211.18	4	6,407.95
1/4		1/4	11,680.69	1/4	11,280.49	1/4	10,758.00	1/4	10,147.39	1/4	9,471.23	1/4	8,745.40	1/4	7,982.74	1/4	7,194.58	1/4	6,391.13
1/2		1/2	11,674.10	1/2	11,270.90	1/2	10,746.17	1/2	10,133.98	1/2	9,456.62	1/2	8,729.88	1/2	7,966.57	1/2	7,177.98	1/2	6,374.31
3/4		3/4	11,667.17	3/4	11,261.02	3/4	10,734.12	3/4	10,120.40	3/4	9,441.89	3/4	8,714.27	3/4	7,950.34	3/4	7,161.33	3/4	6,357.47
5		5	11,660.24	5	11,251.13	5	10,722.07	5	10,106.82	5	9,427.15	5	8,698.67	5	7,934.11	5	7,144.69	5	6,340.63
1/4		1/4	11,653.31	1/4	11,241.24	1/4	10,710.02	1/4	10,093.24	1/4	9,412.42	1/4	8,683.06	1/4	7,917.88	1/4	7,128.05	1/4	6,323.79
1/2		1/2	11,646.38	1/2	11,231.36	1/2	10,697.98	1/2	10,079.67	1/2	9,397.69	1/2	8,667.45	1/2	7,901.64	1/2	7,111.40	1/2	6,306.95
3/4		3/4	11,639.13	3/4	11,221.37	3/4	10,685.85	3/4	10,066.04	3/4	9,382.91	3/4	8,651.81	3/4	7,885.39	3/4	7,094.76	3/4	6,290.11
6		6	11,631.88	6	11,211.38	6	10,673.73	6	10,052.40	6	9,368.13	6	8,636.17	6	7,869.13	6	7,078.11	6	6,273.26
1/4		1/4	11,624.63	1/4	11,201.39	1/4	10,661.60	1/4	10,038.77	1/4	9,353.35	1/4	8,620.52	1/4	7,852.88	1/4	7,061.46	1/4	6,256.42
1/2		1/2	11,617.38	1/2	11,191.40	1/2	10,649.48	1/2	10,025.14	1/2	9,338.57	1/2	8,604.88	1/2	7,836.62	1/2	7,044.81	1/2	6,239.57
3/4	11,851.50	3/4	11,609.73	3/4	11,181.04	3/4	10,637.14	3/4	10,011.35	3/4	9,323.67	3/4	8,589.15	3/4	7,820.30	3/4	7,028.12	3/4	6,222.72
7	11,850.17	7	11,602.08	7	11,170.68	7	10,624.80	7	9,997.56	7	9,308.76	7	8,573.42	7	7,803.98	7	7,011.43	7	6,205.87
1/4	11,848.83	1/4	11,594.43	1/4	11,160.32	1/4	10,612.46	1/4	9,983.77	1/4	9,293.86	1/4	8,557.68	1/4	7,787.65	1/4	6,994.74	1/4	6,189.02
1/2	11,847.50	1/2	11,586.79	1/2	11,149.95	1/2	10,600.12	1/2	9,969.98	1/2	9,278.95	1/2	8,541.95	1/2	7,771.33	1/2	6,978.05	1/2	6,172.17
3/4	11,845.07	3/4	11,579.03	3/4	11,139.46	3/4	10,587.71	3/4	9,956.13	3/4	9,264.01	3/4	8,526.19	3/4	7,755.00	3/4	6,961.35	3/4	6,155.31
8	11,842.64	8	11,571.27	8	11,128.96	8	10,575.31	8	9,942.29	8	9,249.07	8	8,510.43	8	7,738.67	8	6,944.65	8	6,138.45
1/4	11,840.21	1/4	11,563.52	1/4	11,118.47	1/4	10,562.90	1/4	9,928.44	1/4	9,234.13	1/4	8,494.67	1/4	7,722.33	1/4	6,927.96	1/4	6,121.59
1/2	11,837.79	1/2	11,555.76	1/2	11,107.98	1/2	10,550.50	1/2	9,914.60	1/2	9,219.19	1/2	8,478.90	1/2	7,706.00	1/2	6,911.26	1/2	6,104.74
3/4	11,834.50	3/4	11,547.60	3/4	11,097.22	3/4	10,537.89	3/4	9,900.60	3/4	9,204.13	3/4	8,463.07	3/4	7,689.61	3/4	6,894.54	3/4	6,087.88
9	11,831.21	9	11,539.43	9	11,086.46	9	10,525.29	9	9,886.60	9	9,189.07	9	8,447.23	9	7,673.21	9	6,877.81	9	6,071.02
1/4	11,827.93	1/4	11,531.26	1/4	11,075.71	1/4	10,512.68	1/4	9,872.60	1/4	9,174.01	1/4	8,431.39	1/4	7,656.82	1/4	6,861.08	1/4	6,054.17
1/2	11,824.64	1/2	11,523.10	1/2	11,064.95	1/2	10,500.07	1/2	9,858.60	1/2	9,158.95	1/2	8,415.55	1/2	7,640.43	1/2	6,844.36	1/2	6,037.31
3/4	11,820.69	3/4	11,514.80	3/4	11,054.10	3/4	10,487.40	3/4	9,844.54	3/4	9,143.86	3/4	8,399.67	3/4	7,624.02	3/4	6,827.62	3/4	6,020.45
10	11,816.74	10	11,506.50	10	11,043.25	10	10,474.73	10	9,830.49	10	9,128.76	10	8,383.80	10	7,607.61	10	6,810.88	10	6,003.59
1/4	11,812.79	1/4	11,498.20	1/4	11,032.40	1/4	10,462.05	1/4	9,816.43	1/4	9,113.67	1/4	8,367.92	1/4	7,591.20	1/4	6,794.14	1/4	5,986.74
1/2	11,808.83	1/2	11,489.90	1/2	11,021.55	1/2	10,449.38	1/2	9,802.38	1/2	9,098.57	1/2	8,352.05	1/2	7,574.79	1/2	6,777.40	1/2	5,969.88
3/4	11,804.33	3/4	11,481.23	3/4	11,010.44	3/4	10,436.51	3/4	9,788.18	3/4	9,083.37	3/4	8,336.10	3/4	7,558.32	3/4	6,760.64	3/4	5,953.02
11	11,799.82	11	11,472.56	11	10,999.33	11	10,423.64	11	9,773.99	11	9,068.17	11	8,320.15	11	7,541.86	11	6,743.87	11	5,936.17
1/4	11,795.32	1/4	11,463.89	1/4	10,988.23	1/4	10,410.77	1/4	9,759.79	1/4	9,052.96	1/4	8,304.21	1/4	7,525.39	1/4	6,727.10	1/4	5,919.31
1/2	11,790.81	1/2	11,455.21	1/2	10,977.12	1/2	10,397.90	1/2	9,745.60	1/2	9,037.76	1/2	8,288.26	1/2	7,508.93	1/2	6,710.33	1/2	5,902.45
3/4	11,785.80	3/4	11,446.41	3/4	10,965.92	3/4	10,384.98	3/4	9,731.35	3/4	9,022.52	3/4	8,272.29	3/4	7,492.45	3/4	6,693.56	3/4	5,885.60

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 NEAR CENTER OF TANK.  
 CAPACITIES ALLOW FOR CONTRACTION OF TANK SHELL FOR -28 DEGREES F.

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 23851"

## STBD ULLAGE TABLE

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

FORMERLY "B 2701"

GAUGE HEIGHT 22'-03 1/2"

IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.
0	5,868.74	0	5,061.33	0	4,264.27	0	3,487.55	0	2,741.79	0	2,039.04	0	1,393.43	0	823.08	0	354.52	0	39.93
1/4	5,851.88	1/4	5,044.60	1/4	4,247.86	1/4	3,471.68	1/4	2,726.69	1/4	2,024.98	1/4	1,380.75	1/4	812.23	1/4	346.23	1/4	35.83
1/2	5,835.02	1/2	5,027.86	1/2	4,231.45	1/2	3,455.81	1/2	2,711.60	1/2	2,010.93	1/2	1,368.07	1/2	801.38	1/2	337.93	1/2	31.74
3/4	5,818.16	3/4	5,011.12	3/4	4,215.04	3/4	3,439.93	3/4	2,696.50	3/4	1,996.88	3/4	1,355.40	3/4	790.53	3/4	329.63	3/4	28.26
1	5,801.30	1	4,994.38	1	4,198.63	1	3,424.06	1	2,681.41	1	1,982.82	1	1,342.73	1	779.68	1	321.32	1	24.79
1/4	5,784.43	1/4	4,977.64	1/4	4,182.22	1/4	3,408.18	1/4	2,666.31	1/4	1,968.77	1/4	1,330.05	1/4	768.83	1/4	313.02	1/4	21.31
1/2	5,767.57	1/2	4,960.90	1/2	4,165.81	1/2	3,392.31	1/2	2,651.21	1/2	1,954.71	1/2	1,317.38	1/2	757.98	1/2	304.71	1/2	17.83
3/4	5,750.72	3/4	4,944.21	3/4	4,149.47	3/4	3,376.55	3/4	2,636.27	3/4	1,940.87	3/4	1,304.97	3/4	747.49	3/4	296.96	3/4	15.15
2	5,733.87	2	4,927.51	2	4,133.13	2	3,360.79	2	2,621.33	2	1,927.02	2	1,292.56	2	737.00	2	289.20	2	12.48
1/4	5,717.02	1/4	4,910.82	1/4	4,116.79	1/4	3,345.02	1/4	2,606.39	1/4	1,913.18	1/4	1,280.15	1/4	726.51	1/4	281.45	1/4	9.80
1/2	5,700.17	1/2	4,894.12	1/2	4,100.45	1/2	3,329.26	1/2	2,591.45	1/2	1,899.33	1/2	1,267.74	1/2	716.02	1/2	273.69	1/2	7.12
3/4	5,683.31	3/4	4,877.42	3/4	4,084.12	3/4	3,313.51	3/4	2,576.51	3/4	1,885.49	3/4	1,255.33	3/4	705.53	3/4	265.93	3/4	5.64
3	5,666.45	3	4,860.73	3	4,067.79	3	3,297.75	3	2,561.57	3	1,871.65	3	1,242.93	3	695.04	3	258.17	3	4.17
1/4	5,649.60	1/4	4,844.03	1/4	4,051.45	1/4	3,281.99	1/4	2,546.63	1/4	1,857.82	1/4	1,230.52	1/4	684.54	1/4	250.40	1/4	2.69
1/2	5,632.74	1/2	4,827.33	1/2	4,035.12	1/2	3,266.24	1/2	2,531.69	1/2	1,843.98	1/2	1,218.12	1/2	674.05	1/2	242.64	1/2	1.21
3/4	5,615.89	3/4	4,810.68	3/4	4,018.86	3/4	3,250.60	3/4	2,516.91	3/4	1,830.34	3/4	1,205.99	3/4	663.95	3/4	235.32	3/4	
4	5,599.05	4	4,794.02	4	4,002.61	4	3,234.95	4	2,502.13	4	1,816.70	4	1,193.87	4	653.85	4	228.00	4	
1/4	5,582.20	1/4	4,777.37	1/4	3,986.35	1/4	3,219.31	1/4	2,487.35	1/4	1,803.07	1/4	1,181.74	1/4	643.74	1/4	220.68	1/4	
1/2	5,565.36	1/2	4,760.71	1/2	3,970.10	1/2	3,203.67	1/2	2,472.57	1/2	1,789.43	1/2	1,169.62	1/2	633.64	1/2	213.36	1/2	
3/4	5,548.52	3/4	4,744.06	3/4	3,953.84	3/4	3,188.02	3/4	2,457.79	3/4	1,775.80	3/4	1,157.49	3/4	623.54	3/4	206.35	3/4	
5	5,531.68	5	4,727.40	5	3,937.58	5	3,172.38	5	2,443.01	5	1,762.17	5	1,145.37	5	613.44	5	199.33	5	
1/4	5,514.84	1/4	4,710.75	1/4	3,921.33	1/4	3,156.74	1/4	2,428.23	1/4	1,748.54	1/4	1,133.24	1/4	603.34	1/4	192.32	1/4	
1/2	5,498.00	1/2	4,694.10	1/2	3,905.07	1/2	3,141.10	1/2	2,413.45	1/2	1,734.90	1/2	1,121.12	1/2	593.24	1/2	185.31	1/2	
3/4	5,481.17	3/4	4,677.49	3/4	3,888.90	3/4	3,125.58	3/4	2,398.84	3/4	1,721.49	3/4	1,109.29	3/4	583.54	3/4	178.63	3/4	
6	5,464.35	6	4,660.89	6	3,872.73	6	3,110.07	6	2,384.23	6	1,708.08	6	1,097.46	6	573.83	6	171.95	6	
1/4	5,447.52	1/4	4,644.29	1/4	3,856.55	1/4	3,094.56	1/4	2,369.61	1/4	1,694.67	1/4	1,085.64	1/4	564.13	1/4	165.27	1/4	
1/2	5,430.69	1/2	4,627.69	1/2	3,840.38	1/2	3,079.05	1/2	2,355.00	1/2	1,681.26	1/2	1,073.81	1/2	554.43	1/2	158.60	1/2	
3/4	5,413.87	3/4	4,611.10	3/4	3,824.21	3/4	3,063.53	3/4	2,340.39	3/4	1,667.85	3/4	1,061.98	3/4	544.73	3/4	152.26	3/4	
7	5,397.05	7	4,594.50	7	3,808.04	7	3,048.01	7	2,325.79	7	1,654.44	7	1,050.14	7	535.04	7	145.93	7	
1/4	5,380.23	1/4	4,577.90	1/4	3,791.86	1/4	3,032.49	1/4	2,311.18	1/4	1,641.03	1/4	1,038.31	1/4	525.34	1/4	139.60	1/4	
1/2	5,363.40	1/2	4,561.31	1/2	3,775.69	1/2	3,016.98	1/2	2,296.57	1/2	1,627.62	1/2	1,026.48	1/2	515.64	1/2	133.26	1/2	
3/4	5,346.61	3/4	4,544.76	3/4	3,759.62	3/4	3,001.60	3/4	2,282.14	3/4	1,614.45	3/4	1,014.96	3/4	506.37	3/4	127.30	3/4	
8	5,329.81	8	4,528.21	8	3,743.55	8	2,986.21	8	2,267.70	8	1,601.27	8	1,003.44	8	497.11	8	121.33	8	
1/4	5,313.01	1/4	4,511.67	1/4	3,727.48	1/4	2,970.83	1/4	2,253.27	1/4	1,588.10	1/4	991.92	1/4	487.84	1/4	115.37	1/4	
1/2	5,296.21	1/2	4,495.12	1/2	3,711.40	1/2	2,955.45	1/2	2,238.83	1/2	1,574.93	1/2	980.40	1/2	478.57	1/2	109.40	1/2	
3/4	5,279.41	3/4	4,478.58	3/4	3,695.33	3/4	2,940.07	3/4	2,224.40	3/4	1,561.75	3/4	968.89	3/4	469.31	3/4	103.79	3/4	
9	5,262.61	9	4,462.04	9	3,679.25	9	2,924.69	9	2,209.96	9	1,548.57	9	957.37	9	460.05	9	98.17	9	
1/4	5,245.80	1/4	4,445.49	1/4	3,663.17	1/4	2,909.31	1/4	2,195.53	1/4	1,535.39	1/4	945.85	1/4	450.79	1/4	92.55	1/4	
1/2	5,229.00	1/2	4,428.95	1/2	3,647.10	1/2	2,893.93	1/2	2,181.10	1/2	1,522.21	1/2	934.33	1/2	441.52	1/2	86.93	1/2	
3/4	5,212.23	3/4	4,412.47	3/4	3,631.12	3/4	2,878.68	3/4	2,166.85	3/4	1,509.29	3/4	923.14	3/4	432.72	3/4	81.87	3/4	
10	5,195.45	10	4,395.99	10	3,615.14	10	2,863.44	10	2,152.61	10	1,496.36	10	911.94	10	423.92	10	76.81	10	
1/4	5,178.68	1/4	4,379.51	1/4	3,599.17	1/4	2,848.20	1/4	2,138.36	1/4	1,483.43	1/4	900.74	1/4	415.11	1/4	71.75	1/4	
1/2	5,161.90	1/2	4,363.02	1/2	3,583.19	1/2	2,832.95	1/2	2,124.12	1/2	1,470.50	1/2	889.55	1/2	406.31	1/2	66.69	1/2	
3/4	5,145.13	3/4	4,346.54	3/4	3,567.21	3/4	2,817.71	3/4	2,109.88	3/4	1,457.57	3/4	878.36	3/4	397.51	3/4	62.05	3/4	
11	5,128.36	11	4,330.06	11	3,551.24	11	2,802.46	11	2,095.63	11	1,444.64	11	867.17	11	388.71	11	57.40	11	
1/4	5,111.58	1/4	4,313.58	1/4	3,535.26	1/4	2,787.22	1/4	2,081.39	1/4	1,431.71	1/4	855.98	1/4	379.92	1/4	52.76	1/4	
1/2	5,094.81	1/2	4,297.10	1/2	3,519.29	1/2	2,771.98	1/2	2,067.14	1/2	1,418.79	1/2	844.79	1/2	371.12	1/2	48.12	1/2	
3/4	5,078.07	3/4	4,280.68	3/4	3,503.42	3/4	2,756.88	3/4	2,053.09	3/4	1,406.11	3/4	833.93	3/4	362.82	3/4	44.02	3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 12/04/1967 CM  
RECOMPUTED: 08/23/2024 PMA

CANCELS AND SUPERCEDES  
ALL PRIOR TO 08/2024

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