



# BARGE "KIRBY 21851"

# HORIZONTAL PORT ULLAGE TABLE

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

FORMERLY "B 2503A"

GAUGE HEIGHT 25'-01 1/2"

IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	10,685.69	0	10,287.90	0	9,773.86	0	9,177.05	0	8,518.46	0	7,813.93	0	7,075.90	0	6,316.20	0	5,544.79
1/4		1/4	10,678.86	1/4	10,278.06	1/4	9,762.05	1/4	9,163.82	1/4	8,504.14	1/4	7,798.81	1/4	7,060.24	1/4	6,300.21	1/4	5,528.71
1/2		1/2	10,672.02	1/2	10,268.21	1/2	9,750.25	1/2	9,150.58	1/2	8,489.83	1/2	7,783.69	1/2	7,044.57	1/2	6,284.21	1/2	5,512.63
3/4		3/4	10,665.18	3/4	10,258.37	3/4	9,738.44	3/4	9,137.34	3/4	8,475.51	3/4	7,768.57	3/4	7,028.90	3/4	6,268.21	3/4	5,496.56
1		1	10,658.34	1	10,248.52	1	9,726.63	1	9,124.11	1	8,461.19	1	7,753.45	1	7,013.23	1	6,252.21	1	5,480.48
1/4		1/4	10,651.20	1/4	10,238.68	1/4	9,714.82	1/4	9,110.87	1/4	8,446.87	1/4	7,738.32	1/4	6,997.56	1/4	6,236.22	1/4	5,464.40
1/2		1/2	10,644.05	1/2	10,228.83	1/2	9,703.01	1/2	9,097.64	1/2	8,432.55	1/2	7,723.20	1/2	6,981.90	1/2	6,220.22	1/2	5,448.33
3/4		3/4	10,636.90	3/4	10,218.99	3/4	9,691.21	3/4	9,084.40	3/4	8,418.23	3/4	7,708.08	3/4	6,966.23	3/4	6,204.22	3/4	5,432.25
2	10,865.41	2	10,629.75	2	10,209.15	2	9,679.40	2	9,071.17	2	8,403.91	2	7,692.96	2	6,950.56	2	6,188.22	2	5,416.18
1/4	10,863.97	1/4	10,622.18	1/4	10,198.93	1/4	9,667.33	1/4	9,057.72	1/4	8,389.44	1/4	7,677.71	1/4	6,934.82	1/4	6,172.17	1/4	5,400.10
1/2	10,862.53	1/2	10,614.62	1/2	10,188.72	1/2	9,655.27	1/2	9,044.28	1/2	8,374.97	1/2	7,662.46	1/2	6,919.08	1/2	6,156.11	1/2	5,384.02
3/4	10,861.09	3/4	10,607.05	3/4	10,178.50	3/4	9,643.21	3/4	9,030.84	3/4	8,360.50	3/4	7,647.21	3/4	6,903.34	3/4	6,140.05	3/4	5,367.95
3	10,859.65	3	10,599.48	3	10,168.29	3	9,631.15	3	9,017.40	3	8,346.03	3	7,631.96	3	6,887.60	3	6,124.00	3	5,351.87
1/4	10,857.03	1/4	10,591.91	1/4	10,158.07	1/4	9,619.08	1/4	9,003.96	1/4	8,331.56	1/4	7,616.71	1/4	6,871.86	1/4	6,107.94	1/4	5,335.80
1/2	10,854.41	1/2	10,584.34	1/2	10,147.86	1/2	9,607.02	1/2	8,990.52	1/2	8,317.08	1/2	7,601.46	1/2	6,856.12	1/2	6,091.88	1/2	5,319.72
3/4	10,851.80	3/4	10,576.77	3/4	10,137.64	3/4	9,594.96	3/4	8,977.07	3/4	8,302.61	3/4	7,586.21	3/4	6,840.38	3/4	6,075.83	3/4	5,303.59
4	10,849.18	4	10,569.21	4	10,127.43	4	9,582.89	4	8,963.63	4	8,288.14	4	7,570.96	4	6,824.64	4	6,059.77	4	5,287.46
1/4	10,845.79	1/4	10,561.11	1/4	10,116.85	1/4	9,570.57	1/4	8,949.98	1/4	8,273.52	1/4	7,555.63	1/4	6,808.84	1/4	6,043.71	1/4	5,271.32
1/2	10,842.40	1/2	10,553.02	1/2	10,106.27	1/2	9,558.25	1/2	8,936.33	1/2	8,258.90	1/2	7,540.30	1/2	6,793.04	1/2	6,027.65	1/2	5,255.19
3/4	10,839.00	3/4	10,544.92	3/4	10,095.70	3/4	9,545.93	3/4	8,922.68	3/4	8,244.29	3/4	7,524.98	3/4	6,777.24	3/4	6,011.59	3/4	5,239.06
5	10,835.61	5	10,536.83	5	10,085.12	5	9,533.60	5	8,909.02	5	8,229.67	5	7,509.65	5	6,761.44	5	5,995.53	5	5,222.93
1/4	10,831.61	1/4	10,528.74	1/4	10,074.54	1/4	9,521.28	1/4	8,895.37	1/4	8,215.05	1/4	7,494.32	1/4	6,745.64	1/4	5,979.47	1/4	5,206.79
1/2	10,827.61	1/2	10,520.64	1/2	10,063.97	1/2	9,508.96	1/2	8,881.72	1/2	8,200.43	1/2	7,478.99	1/2	6,729.84	1/2	5,963.40	1/2	5,190.66
3/4	10,823.60	3/4	10,512.55	3/4	10,053.39	3/4	9,496.64	3/4	8,868.07	3/4	8,185.81	3/4	7,463.66	3/4	6,714.04	3/4	5,947.34	3/4	5,174.56
6	10,819.60	6	10,504.46	6	10,042.82	6	9,484.31	6	8,854.41	6	8,171.20	6	7,448.33	6	6,698.23	6	5,931.28	6	5,158.46
1/4	10,815.07	1/4	10,495.88	1/4	10,031.92	1/4	9,471.75	1/4	8,840.59	1/4	8,156.42	1/4	7,432.91	1/4	6,682.34	1/4	5,915.20	1/4	5,142.36
1/2	10,810.53	1/2	10,487.30	1/2	10,021.02	1/2	9,459.18	1/2	8,826.78	1/2	8,141.65	1/2	7,417.48	1/2	6,666.45	1/2	5,899.12	1/2	5,126.26
3/4	10,806.00	3/4	10,478.71	3/4	10,010.13	3/4	9,446.61	3/4	8,812.96	3/4	8,126.87	3/4	7,402.06	3/4	6,650.56	3/4	5,883.04	3/4	5,110.16
7	10,801.46	7	10,470.13	7	9,999.23	7	9,434.04	7	8,799.14	7	8,112.10	7	7,386.63	7	6,634.67	7	5,866.96	7	5,094.06
1/4	10,796.46	1/4	10,461.55	1/4	9,988.33	1/4	9,421.48	1/4	8,785.32	1/4	8,097.33	1/4	7,371.21	1/4	6,618.78	1/4	5,850.88	1/4	5,077.96
1/2	10,791.47	1/2	10,452.97	1/2	9,977.44	1/2	9,408.91	1/2	8,771.51	1/2	8,082.55	1/2	7,355.78	1/2	6,602.89	1/2	5,834.80	1/2	5,061.86
3/4	10,786.47	3/4	10,444.39	3/4	9,966.54	3/4	9,396.34	3/4	8,757.69	3/4	8,067.78	3/4	7,340.36	3/4	6,587.00	3/4	5,818.72	3/4	5,045.78
8	10,781.47	8	10,435.81	8	9,955.64	8	9,383.78	8	8,743.87	8	8,053.00	8	7,324.93	8	6,571.11	8	5,802.64	8	5,029.70
1/4	10,776.04	1/4	10,426.78	1/4	9,944.43	1/4	9,370.96	1/4	8,729.88	1/4	8,038.12	1/4	7,309.43	1/4	6,555.20	1/4	5,786.54	1/4	5,013.62
1/2	10,770.61	1/2	10,417.74	1/2	9,933.22	1/2	9,358.14	1/2	8,715.89	1/2	8,023.24	1/2	7,293.92	1/2	6,539.29	1/2	5,770.44	1/2	4,997.54
3/4	10,765.18	3/4	10,408.70	3/4	9,922.01	3/4	9,345.32	3/4	8,701.90	3/4	8,008.36	3/4	7,278.41	3/4	6,523.38	3/4	5,754.34	3/4	4,981.46
9	10,759.75	9	10,399.67	9	9,910.80	9	9,332.50	9	8,687.90	9	7,993.47	9	7,262.91	9	6,507.47	9	5,738.24	9	4,965.38
1/4	10,753.94	1/4	10,390.63	1/4	9,899.59	1/4	9,319.69	1/4	8,673.91	1/4	7,978.59	1/4	7,247.40	1/4	6,491.57	1/4	5,722.14	1/4	4,949.30
1/2	10,748.12	1/2	10,381.59	1/2	9,888.37	1/2	9,306.87	1/2	8,659.92	1/2	7,963.71	1/2	7,231.89	1/2	6,475.66	1/2	5,706.04	1/2	4,933.22
3/4	10,742.31	3/4	10,372.56	3/4	9,877.16	3/4	9,294.05	3/4	8,645.93	3/4	7,948.83	3/4	7,216.38	3/4	6,459.75	3/4	5,689.94	3/4	4,917.16
10	10,736.49	10	10,363.52	10	9,865.95	10	9,281.23	10	8,631.94	10	7,933.95	10	7,200.88	10	6,443.84	10	5,673.84	10	4,901.10
1/4	10,730.31	1/4	10,354.07	1/4	9,854.44	1/4	9,268.21	1/4	8,617.75	1/4	7,918.94	1/4	7,185.25	1/4	6,427.89	1/4	5,657.71	1/4	4,885.04
1/2	10,724.13	1/2	10,344.62	1/2	9,842.93	1/2	9,255.19	1/2	8,603.57	1/2	7,903.94	1/2	7,169.63	1/2	6,411.93	1/2	5,641.58	1/2	4,868.98
3/4	10,717.95	3/4	10,335.16	3/4	9,831.42	3/4	9,242.17	3/4	8,589.38	3/4	7,888.94	3/4	7,154.01	3/4	6,395.98	3/4	5,625.45	3/4	4,852.92
11	10,711.77	11	10,325.71	11	9,819.91	11	9,229.14	11	8,575.20	11	7,873.94	11	7,138.39	11	6,380.02	11	5,609.31	11	4,836.86
1/4	10,705.25	1/4	10,316.26	1/4	9,808.40	1/4	9,216.12	1/4	8,561.02	1/4	7,858.94	1/4	7,122.77	1/4	6,364.07	1/4	5,593.18	1/4	4,820.80
1/2	10,698.73	1/2	10,306.81	1/2	9,796.88	1/2	9,203.10	1/2	8,546.83	1/2	7,843.93	1/2	7,107.15	1/2	6,348.11	1/2	5,577.05	1/2	4,804.74
3/4	10,692.21	3/4	10,297.35	3/4	9,785.37	3/4	9,190.07	3/4	8,532.65	3/4	7,828.93	3/4	7,091.53	3/4	6,332.16	3/4	5,560.92	3/4	4,788.68

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
GAUGE POINT: (HERMETIC) LOCATED AT CENTER OF TANK.  
CAPACITIES ALLOW FOR OPERATING TEMPERATURE OF -27 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 21851"

# HORIZONTAL PORT ULLAGE TABLE

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

FORMERLY "B 2503A"

GAUGE HEIGHT 25'-01 1/2"

IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.	IN	23 FT.	IN	24 FT.	IN	25 FT.	IN	19 FT.
0	4,772.62	0	4,008.39	0	3,263.04	0	2,547.42	0	1,873.99	0	1,257.48	0	716.65	0	281.32	0	11.85	0	
1/4	4,756.57	1/4	3,992.65	1/4	3,247.79	1/4	2,532.95	1/4	1,860.55	1/4	1,245.42	1/4	706.43	1/4	273.85	1/4	9.23	1/4	
1/2	4,740.51	1/2	3,976.91	1/2	3,232.54	1/2	2,518.48	1/2	1,847.11	1/2	1,233.36	1/2	696.22	1/2	266.38	1/2	6.61	1/2	
3/4	4,724.45	3/4	3,961.17	3/4	3,217.29	3/4	2,504.01	3/4	1,833.66	3/4	1,221.30	3/4	686.00	3/4	258.92	3/4	5.17	3/4	
1	4,708.40	1	3,945.43	1	3,202.04	1	2,489.53	1	1,820.22	1	1,209.23	1	675.79	1	251.45	1	3.73	1	
1/4	4,692.34	1/4	3,929.69	1/4	3,186.79	1/4	2,475.06	1/4	1,806.78	1/4	1,197.17	1/4	665.57	1/4	243.98	1/4	2.29	1/4	
1/2	4,676.28	1/2	3,913.95	1/2	3,171.54	1/2	2,460.59	1/2	1,793.34	1/2	1,185.11	1/2	655.36	1/2	236.51	1/2	0.85	1/2	
3/4	4,660.28	3/4	3,898.28	3/4	3,156.42	3/4	2,446.27	3/4	1,780.10	3/4	1,173.30	3/4	645.51	3/4	229.36	3/4		3/4	
2	4,644.29	2	3,882.61	2	3,141.30	2	2,431.95	2	1,766.87	2	1,161.49	2	635.67	2	222.21	2		2	
1/4	4,628.29	1/4	3,866.94	1/4	3,126.18	1/4	2,417.63	1/4	1,753.63	1/4	1,149.68	1/4	625.83	1/4	215.07	1/4		1/4	
1/2	4,612.29	1/2	3,851.27	1/2	3,111.06	1/2	2,403.32	1/2	1,740.40	1/2	1,137.88	1/2	615.98	1/2	207.92	1/2		1/2	
3/4	4,596.29	3/4	3,835.60	3/4	3,095.94	3/4	2,389.00	3/4	1,727.16	3/4	1,126.07	3/4	606.14	3/4	201.08	3/4		3/4	
3	4,580.30	3	3,819.94	3	3,080.82	3	2,374.68	3	1,713.92	3	1,114.26	3	596.29	3	194.24	3		3	
1/4	4,564.30	1/4	3,804.27	1/4	3,065.70	1/4	2,360.36	1/4	1,700.69	1/4	1,102.45	1/4	586.45	1/4	187.40	1/4		1/4	
1/2	4,548.30	1/2	3,788.60	1/2	3,050.58	1/2	2,346.04	1/2	1,687.45	1/2	1,090.64	1/2	576.60	1/2	180.57	1/2		1/2	
3/4	4,532.35	3/4	3,772.98	3/4	3,035.57	3/4	2,331.86	3/4	1,674.43	3/4	1,079.13	3/4	567.15	3/4	174.05	3/4		3/4	
4	4,516.39	4	3,757.36	4	3,020.57	4	2,317.67	4	1,661.41	4	1,067.62	4	557.70	4	167.53	4		4	
1/4	4,500.44	1/4	3,741.74	1/4	3,005.57	1/4	2,303.49	1/4	1,648.38	1/4	1,056.11	1/4	548.25	1/4	161.01	1/4		1/4	
1/2	4,484.48	1/2	3,726.11	1/2	2,990.57	1/2	2,289.30	1/2	1,635.36	1/2	1,044.60	1/2	538.79	1/2	154.49	1/2		1/2	
3/4	4,468.53	3/4	3,710.49	3/4	2,975.57	3/4	2,275.12	3/4	1,622.34	3/4	1,033.09	3/4	529.34	3/4	148.31	3/4		3/4	
5	4,452.57	5	3,694.87	5	2,960.56	5	2,260.94	5	1,609.32	5	1,021.58	5	519.89	5	142.13	5		5	
1/4	4,436.62	1/4	3,679.25	1/4	2,945.56	1/4	2,246.75	1/4	1,596.29	1/4	1,010.07	1/4	510.44	1/4	135.95	1/4		1/4	
1/2	4,420.66	1/2	3,663.63	1/2	2,930.56	1/2	2,232.57	1/2	1,583.27	1/2	998.55	1/2	500.98	1/2	129.77	1/2		1/2	
3/4	4,404.76	3/4	3,648.12	3/4	2,915.68	3/4	2,218.58	3/4	1,570.45	3/4	987.34	3/4	491.95	3/4	123.95	3/4		3/4	
6	4,388.85	6	3,632.61	6	2,900.80	6	2,204.58	6	1,557.64	6	976.13	6	482.91	6	118.14	6		6	
1/4	4,372.94	1/4	3,617.11	1/4	2,885.91	1/4	2,190.59	1/4	1,544.82	1/4	964.92	1/4	473.87	1/4	112.32	1/4		1/4	
1/2	4,357.03	1/2	3,601.60	1/2	2,871.03	1/2	2,176.60	1/2	1,532.00	1/2	953.71	1/2	464.84	1/2	106.51	1/2		1/2	
3/4	4,341.12	3/4	3,586.09	3/4	2,856.15	3/4	2,162.61	3/4	1,519.18	3/4	942.50	3/4	455.80	3/4	101.08	3/4		3/4	
7	4,325.22	7	3,570.58	7	2,841.27	7	2,148.62	7	1,506.36	7	931.28	7	446.76	7	95.65	7		7	
1/4	4,309.31	1/4	3,555.08	1/4	2,826.38	1/4	2,134.62	1/4	1,493.55	1/4	920.07	1/4	437.73	1/4	90.22	1/4		1/4	
1/2	4,293.40	1/2	3,539.57	1/2	2,811.50	1/2	2,120.63	1/2	1,480.73	1/2	908.86	1/2	428.69	1/2	84.79	1/2		1/2	
3/4	4,277.51	3/4	3,524.15	3/4	2,796.73	3/4	2,106.82	3/4	1,468.16	3/4	897.96	3/4	420.17	3/4	79.79	3/4		3/4	
8	4,261.62	8	3,508.72	8	2,781.95	8	2,093.00	8	1,455.59	8	887.07	8	411.65	8	74.79	8		8	
1/4	4,245.73	1/4	3,493.30	1/4	2,767.18	1/4	2,079.18	1/4	1,443.03	1/4	876.17	1/4	403.13	1/4	69.80	1/4		1/4	
1/2	4,229.83	1/2	3,477.87	1/2	2,752.41	1/2	2,065.36	1/2	1,430.46	1/2	865.27	1/2	394.61	1/2	64.80	1/2		1/2	
3/4	4,213.94	3/4	3,462.45	3/4	2,737.63	3/4	2,051.54	3/4	1,417.89	3/4	854.38	3/4	386.09	3/4	60.26	3/4		3/4	
9	4,198.05	9	3,447.02	9	2,722.86	9	2,037.73	9	1,405.33	9	843.48	9	377.57	9	55.73	9		9	
1/4	4,182.16	1/4	3,431.60	1/4	2,708.08	1/4	2,023.91	1/4	1,392.76	1/4	832.59	1/4	369.05	1/4	51.19	1/4		1/4	
1/2	4,166.27	1/2	3,416.17	1/2	2,693.31	1/2	2,010.09	1/2	1,380.19	1/2	821.69	1/2	360.53	1/2	46.66	1/2		1/2	
3/4	4,150.47	3/4	3,400.84	3/4	2,678.69	3/4	1,996.44	3/4	1,367.87	3/4	811.11	3/4	352.50	3/4	42.66	3/4		3/4	
10	4,134.67	10	3,385.51	10	2,664.07	10	1,982.79	10	1,355.55	10	800.54	10	344.46	10	38.65	10		10	
1/4	4,118.87	1/4	3,370.19	1/4	2,649.45	1/4	1,969.13	1/4	1,343.22	1/4	789.96	1/4	336.43	1/4	34.65	1/4		1/4	
1/2	4,103.07	1/2	3,354.86	1/2	2,634.84	1/2	1,955.48	1/2	1,330.90	1/2	779.38	1/2	328.39	1/2	30.65	1/2		1/2	
3/4	4,087.27	3/4	3,339.53	3/4	2,620.22	3/4	1,941.83	3/4	1,318.58	3/4	768.81	3/4	320.36	3/4	27.26	3/4		3/4	
11	4,071.47	11	3,324.20	11	2,605.60	11	1,928.18	11	1,306.26	11	758.23	11	312.33	11	23.87	11		11	
1/4	4,055.67	1/4	3,308.87	1/4	2,590.98	1/4	1,914.52	1/4	1,293.93	1/4	747.65	1/4	304.29	1/4	20.47	1/4		1/4	
1/2	4,039.87	1/2	3,293.54	1/2	2,576.36	1/2	1,900.87	1/2	1,281.61	1/2	737.08	1/2	296.26	1/2	17.08	1/2		1/2	
3/4	4,024.13	3/4	3,278.29	3/4	2,561.89	3/4	1,887.43	3/4	1,269.55	3/4	726.86	3/4	288.79	3/4	14.47	3/4		3/4	

DECK MEASUREMENTS: 09/08/1997 SI  
REPRINTED: 12/26/2001 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2001

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 21851"

# HORIZONTAL STBD

## ULLAGE TABLE

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

FORMERLY "B 2503A"

GAUGE HEIGHT 25'-01 5/8"

IN	7 FT.	IN	8 FT.	IN	9 FT.	IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.
0		0	10,678.59	0	10,282.65	0	9,770.14	0	9,174.66	0	8,517.29	0	7,813.85	0	7,076.85	0	6,318.05	0	5,547.46
1/4		1/4	10,671.91	1/4	10,273.01	1/4	9,758.49	1/4	9,161.55	1/4	8,503.06	1/4	7,798.80	1/4	7,061.22	1/4	6,302.09	1/4	5,531.37
1/2		1/2	10,665.08	1/2	10,263.17	1/2	9,746.69	1/2	9,148.32	1/2	8,488.75	1/2	7,783.70	1/2	7,045.57	1/2	6,286.11	1/2	5,515.31
3/4		3/4	10,658.25	3/4	10,253.34	3/4	9,734.90	3/4	9,135.10	3/4	8,474.45	3/4	7,768.59	3/4	7,029.91	3/4	6,270.12	3/4	5,499.25
1		1	10,651.42	1	10,243.50	1	9,723.10	1	9,121.88	1	8,460.14	1	7,753.48	1	7,014.26	1	6,254.14	1	5,483.19
1/4		1/4	10,644.44	1/4	10,233.67	1/4	9,711.30	1/4	9,108.66	1/4	8,445.84	1/4	7,738.38	1/4	6,998.61	1/4	6,238.16	1/4	5,467.13
1/2		1/2	10,637.30	1/2	10,223.84	1/2	9,699.51	1/2	9,095.43	1/2	8,431.53	1/2	7,723.27	1/2	6,982.95	1/2	6,222.18	1/2	5,451.07
3/4		3/4	10,630.15	3/4	10,214.00	3/4	9,687.71	3/4	9,082.21	3/4	8,417.23	3/4	7,708.17	3/4	6,967.30	3/4	6,206.20	3/4	5,435.01
2 1/8	10,854.87	2	10,623.01	2	10,204.17	2	9,675.91	2	9,068.99	2	8,402.92	2	7,693.06	2	6,951.65	2	6,190.21	2	5,418.95
1/4	10,854.15	1/4	10,615.66	1/4	10,194.15	1/4	9,663.99	1/4	9,055.66	1/4	8,388.54	1/4	7,677.89	1/4	6,935.96	1/4	6,174.20	1/4	5,402.89
1/2	10,852.71	1/2	10,608.10	1/2	10,183.94	1/2	9,651.94	1/2	9,042.23	1/2	8,374.08	1/2	7,662.65	1/2	6,920.23	1/2	6,158.16	1/2	5,386.83
3/4	10,851.27	3/4	10,600.54	3/4	10,173.74	3/4	9,639.89	3/4	9,028.80	3/4	8,359.63	3/4	7,647.42	3/4	6,904.51	3/4	6,142.12	3/4	5,370.77
3	10,849.83	3	10,592.98	3	10,163.53	3	9,627.84	3	9,015.37	3	8,345.17	3	7,632.18	3	6,888.79	3	6,126.08	3	5,354.71
1/4	10,847.81	1/4	10,585.42	1/4	10,153.33	1/4	9,615.79	1/4	9,001.95	1/4	8,330.71	1/4	7,616.95	1/4	6,873.06	1/4	6,110.04	1/4	5,338.65
1/2	10,845.19	1/2	10,577.86	1/2	10,143.12	1/2	9,603.73	1/2	8,988.52	1/2	8,316.25	1/2	7,601.71	1/2	6,857.34	1/2	6,093.99	1/2	5,322.59
3/4	10,842.58	3/4	10,570.30	3/4	10,132.92	3/4	9,591.68	3/4	8,975.09	3/4	8,301.80	3/4	7,586.48	3/4	6,841.61	3/4	6,077.95	3/4	5,306.50
4	10,839.96	4	10,562.74	4	10,122.71	4	9,579.63	4	8,961.66	4	8,287.34	4	7,571.24	4	6,825.89	4	6,061.91	4	5,290.38
1/4	10,836.96	1/4	10,554.91	1/4	10,112.33	1/4	9,567.45	1/4	8,948.13	1/4	8,272.81	1/4	7,555.97	1/4	6,810.13	1/4	6,045.87	1/4	5,274.27
1/2	10,833.57	1/2	10,546.83	1/2	10,101.76	1/2	9,555.14	1/2	8,934.49	1/2	8,258.20	1/2	7,540.65	1/2	6,794.35	1/2	6,029.82	1/2	5,258.15
3/4	10,830.18	3/4	10,538.74	3/4	10,091.19	3/4	9,542.83	3/4	8,920.85	3/4	8,243.60	3/4	7,525.34	3/4	6,778.56	3/4	6,013.78	3/4	5,242.03
5	10,826.80	5	10,530.66	5	10,080.63	5	9,530.52	5	8,907.21	5	8,229.00	5	7,510.03	5	6,762.78	5	5,997.73	5	5,225.92
1/4	10,823.10	1/4	10,522.57	1/4	10,070.06	1/4	9,518.21	1/4	8,893.57	1/4	8,214.39	1/4	7,494.71	1/4	6,746.99	1/4	5,981.69	1/4	5,209.80
1/2	10,819.10	1/2	10,514.48	1/2	10,059.50	1/2	9,505.90	1/2	8,879.93	1/2	8,199.79	1/2	7,479.40	1/2	6,731.20	1/2	5,965.64	1/2	5,193.68
3/4	10,815.10	3/4	10,506.40	3/4	10,048.93	3/4	9,493.59	3/4	8,866.29	3/4	8,185.18	3/4	7,464.09	3/4	6,715.42	3/4	5,949.60	3/4	5,177.58
6	10,811.11	6	10,498.31	6	10,038.36	6	9,481.28	6	8,852.65	6	8,170.58	6	7,448.77	6	6,699.63	6	5,933.55	6	5,161.50
1/4	10,806.84	1/4	10,489.98	1/4	10,027.64	1/4	9,468.84	1/4	8,838.93	1/4	8,155.90	1/4	7,433.41	1/4	6,683.80	1/4	5,917.50	1/4	5,145.41
1/2	10,802.31	1/2	10,481.41	1/2	10,016.75	1/2	9,456.29	1/2	8,825.13	1/2	8,141.14	1/2	7,418.00	1/2	6,667.93	1/2	5,901.43	1/2	5,129.33
3/4	10,797.78	3/4	10,472.84	3/4	10,005.87	3/4	9,443.73	3/4	8,811.32	3/4	8,126.38	3/4	7,402.59	3/4	6,652.05	3/4	5,885.37	3/4	5,113.24
7	10,793.25	7	10,464.27	7	9,994.98	7	9,431.18	7	8,797.52	7	8,111.62	7	7,387.18	7	6,636.18	7	5,869.31	7	5,097.16
1/4	10,788.49	1/4	10,455.70	1/4	9,984.09	1/4	9,418.62	1/4	8,783.71	1/4	8,096.86	1/4	7,371.77	1/4	6,620.30	1/4	5,853.24	1/4	5,081.08
1/2	10,783.50	1/2	10,447.12	1/2	9,973.21	1/2	9,406.07	1/2	8,769.91	1/2	8,082.10	1/2	7,356.36	1/2	6,604.42	1/2	5,837.18	1/2	5,064.99
3/4	10,778.50	3/4	10,438.55	3/4	9,962.32	3/4	9,393.51	3/4	8,756.11	3/4	8,067.34	3/4	7,340.95	3/4	6,588.55	3/4	5,821.11	3/4	5,048.92
8	10,773.51	8	10,429.98	8	9,951.44	8	9,380.96	8	8,742.30	8	8,052.58	8	7,325.54	8	6,572.67	8	5,805.05	8	5,032.85
1/4	10,768.30	1/4	10,421.18	1/4	9,940.39	1/4	9,368.28	1/4	8,728.41	1/4	8,037.77	1/4	7,310.09	1/4	6,556.79	1/4	5,788.97	1/4	5,016.79
1/2	10,762.88	1/2	10,412.15	1/2	9,929.19	1/2	9,355.47	1/2	8,714.43	1/2	8,022.90	1/2	7,294.60	1/2	6,540.90	1/2	5,772.89	1/2	5,000.72
3/4	10,757.45	3/4	10,403.12	3/4	9,917.99	3/4	9,342.67	3/4	8,700.45	3/4	8,008.03	3/4	7,279.10	3/4	6,525.00	3/4	5,756.80	3/4	4,984.66
9	10,752.03	9	10,394.10	9	9,906.79	9	9,329.86	9	8,686.47	9	7,993.16	9	7,263.61	9	6,509.11	9	5,740.72	9	4,968.59
1/4	10,746.41	1/4	10,385.07	1/4	9,895.59	1/4	9,317.06	1/4	8,672.50	1/4	7,978.29	1/4	7,248.12	1/4	6,493.22	1/4	5,724.63	1/4	4,952.53
1/2	10,740.60	1/2	10,376.04	1/2	9,884.39	1/2	9,304.25	1/2	8,658.52	1/2	7,963.43	1/2	7,232.63	1/2	6,477.33	1/2	5,708.55	1/2	4,936.46
3/4	10,734.79	3/4	10,367.01	3/4	9,873.19	3/4	9,291.45	3/4	8,644.54	3/4	7,948.56	3/4	7,217.14	3/4	6,461.43	3/4	5,692.47	3/4	4,920.41
10	10,728.98	10	10,357.99	10	9,861.99	10	9,278.64	10	8,630.56	10	7,933.69	10	7,201.64	10	6,445.54	10	5,676.38	10	4,904.36
1/4	10,722.99	1/4	10,348.75	1/4	9,850.64	1/4	9,265.73	1/4	8,616.49	1/4	7,918.76	1/4	7,186.09	1/4	6,429.62	1/4	5,660.28	1/4	4,888.32
1/2	10,716.82	1/2	10,339.31	1/2	9,839.14	1/2	9,252.72	1/2	8,602.32	1/2	7,903.78	1/2	7,170.49	1/2	6,413.69	1/2	5,644.16	1/2	4,872.27
3/4	10,710.65	3/4	10,329.87	3/4	9,827.64	3/4	9,239.71	3/4	8,588.15	3/4	7,888.79	3/4	7,154.88	3/4	6,397.75	3/4	5,628.05	3/4	4,856.23
11	10,704.47	11	10,320.42	11	9,816.14	11	9,226.70	11	8,573.98	11	7,873.80	11	7,139.27	11	6,381.81	11	5,611.93	11	4,840.18
1/4	10,698.13	1/4	10,310.98	1/4	9,804.64	1/4	9,213.69	1/4	8,559.81	1/4	7,858.81	1/4	7,123.67	1/4	6,365.87	1/4	5,595.81	1/4	4,824.14
1/2	10,691.61	1/2	10,301.54	1/2	9,793.14	1/2	9,200.68	1/2	8,545.64	1/2	7,843.83	1/2	7,108.06	1/2	6,349.93	1/2	5,579.70	1/2	4,808.09
3/4	10,685.10	3/4	10,292.09	3/4	9,781.64	3/4	9,187.67	3/4	8,531.46	3/4	7,828.84	3/4	7,092.46	3/4	6,333.99	3/4	5,563.58	3/4	4,792.05

CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.  
 GAUGE POINT: (HERMETIC) LOCATED AT CENTER OF TANK.  
 CAPACITIES ALLOW FOR OPERATING TEMPERATURE OF -27 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 21851"

# HORIZONTAL STBD

## ULLAGE TABLE

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

FORMERLY "B 2503A"

GAUGE HEIGHT 25'-01 5/8"

IN	17 FT.	IN	18 FT.	IN	19 FT.	IN	20 FT.	IN	21 FT.	IN	22 FT.	IN	23 FT.	IN	24 FT.	IN	25 FT.	IN	19 FT.
0	4,776.01	0	4,012.35	0	3,267.49	0	2,552.17	0	1,878.87	0	1,262.28	0	721.05	0	284.78	0	13.14	0	
1/4	4,759.97	1/4	3,996.63	1/4	3,252.25	1/4	2,537.71	1/4	1,865.45	1/4	1,250.23	1/4	710.84	1/4	277.31	1/4	10.53	1/4	
1/2	4,743.93	1/2	3,980.90	1/2	3,237.02	1/2	2,523.25	1/2	1,852.02	1/2	1,238.18	1/2	700.64	1/2	269.85	1/2	7.91	1/2	
3/4	4,727.89	3/4	3,965.18	3/4	3,221.78	3/4	2,508.79	3/4	1,838.59	3/4	1,226.13	3/4	690.43	3/4	262.39	3/4	5.88	3/4	
1	4,711.84	1	3,949.45	1	3,206.55	1	2,494.34	1	1,825.16	1	1,214.08	1	680.23	1	254.93	1	4.45	1	
1/4	4,695.80	1/4	3,933.73	1/4	3,191.31	1/4	2,479.88	1/4	1,811.73	1/4	1,202.02	1/4	670.02	1/4	247.47	1/4	3.01	1/4	
1/2	4,679.76	1/2	3,918.00	1/2	3,176.08	1/2	2,465.42	1/2	1,798.30	1/2	1,189.97	1/2	659.82	1/2	240.01	1/2	1.57	1/2	
3/4	4,663.75	3/4	3,902.32	3/4	3,160.90	3/4	2,451.04	3/4	1,784.98	3/4	1,178.05	3/4	649.80	3/4	232.71	5/8	0.85	3/4	
2	4,647.77	2	3,886.66	2	3,145.80	2	2,436.74	2	1,771.75	2	1,166.25	2	639.96	2	225.57	2		2	
1/4	4,631.79	1/4	3,871.01	1/4	3,130.69	1/4	2,422.43	1/4	1,758.53	1/4	1,154.46	1/4	630.13	1/4	218.42	1/4		1/4	
1/2	4,615.80	1/2	3,855.36	1/2	3,115.58	1/2	2,408.13	1/2	1,745.31	1/2	1,142.66	1/2	620.29	1/2	211.28	1/2		1/2	
3/4	4,599.82	3/4	3,839.70	3/4	3,100.48	3/4	2,393.82	3/4	1,732.09	3/4	1,130.86	3/4	610.46	3/4	204.30	3/4		3/4	
3	4,583.84	3	3,824.05	3	3,085.37	3	2,379.52	3	1,718.86	3	1,119.07	3	600.62	3	197.47	3		3	
1/4	4,567.86	1/4	3,808.40	1/4	3,070.27	1/4	2,365.21	1/4	1,705.64	1/4	1,107.27	1/4	590.79	1/4	190.64	1/4		1/4	
1/2	4,551.87	1/2	3,792.74	1/2	3,055.16	1/2	2,350.91	1/2	1,692.42	1/2	1,095.47	1/2	580.95	1/2	183.80	1/2		1/2	
3/4	4,535.91	3/4	3,777.11	3/4	3,040.11	3/4	2,336.67	3/4	1,679.30	3/4	1,083.82	3/4	571.31	3/4	177.13	3/4		3/4	
4	4,519.97	4	3,761.51	4	3,025.12	4	2,322.50	4	1,666.29	4	1,072.32	4	561.87	4	170.62	4		4	
1/4	4,504.04	1/4	3,745.90	1/4	3,010.14	1/4	2,308.33	1/4	1,653.28	1/4	1,060.82	1/4	552.43	1/4	164.10	1/4		1/4	
1/2	4,488.10	1/2	3,730.29	1/2	2,995.15	1/2	2,294.16	1/2	1,640.27	1/2	1,049.33	1/2	542.98	1/2	157.59	1/2		1/2	
3/4	4,472.16	3/4	3,714.69	3/4	2,980.16	3/4	2,279.99	3/4	1,627.26	3/4	1,037.83	3/4	533.54	3/4	151.25	3/4		3/4	
5	4,456.22	5	3,699.08	5	2,965.17	5	2,265.82	5	1,614.25	5	1,026.33	5	524.10	5	145.07	5		5	
1/4	4,440.28	1/4	3,683.48	1/4	2,950.19	1/4	2,251.65	1/4	1,601.24	1/4	1,014.83	1/4	514.66	1/4	138.90	1/4		1/4	
1/2	4,424.34	1/2	3,667.87	1/2	2,935.20	1/2	2,237.48	1/2	1,588.23	1/2	1,003.33	1/2	505.21	1/2	132.73	1/2		1/2	
3/4	4,408.42	3/4	3,652.32	3/4	2,920.27	3/4	2,223.40	3/4	1,575.32	3/4	991.98	3/4	495.98	3/4	126.74	3/4		3/4	
6	4,392.53	6	3,636.83	6	2,905.40	6	2,209.42	6	1,562.52	6	980.77	6	486.95	6	120.93	6		6	
1/4	4,376.64	1/4	3,621.34	1/4	2,890.54	1/4	2,195.44	1/4	1,549.71	1/4	969.57	1/4	477.92	1/4	115.12	1/4		1/4	
1/2	4,360.75	1/2	3,605.84	1/2	2,875.67	1/2	2,181.47	1/2	1,536.91	1/2	958.37	1/2	468.89	1/2	109.31	1/2		1/2	
3/4	4,344.85	3/4	3,590.35	3/4	2,860.80	3/4	2,167.49	3/4	1,524.10	3/4	947.17	3/4	459.87	3/4	103.69	3/4		3/4	
7	4,328.96	7	3,574.86	7	2,845.93	7	2,153.51	7	1,511.29	7	935.97	7	450.84	7	98.27	7		7	
1/4	4,313.07	1/4	3,559.37	1/4	2,831.06	1/4	2,139.53	1/4	1,498.49	1/4	924.77	1/4	441.81	1/4	92.84	1/4		1/4	
1/2	4,297.17	1/2	3,543.87	1/2	2,816.20	1/2	2,125.55	1/2	1,485.68	1/2	913.57	1/2	432.78	1/2	87.42	1/2		1/2	
3/4	4,281.29	3/4	3,528.42	3/4	2,801.38	3/4	2,111.66	3/4	1,473.00	3/4	902.53	3/4	424.01	3/4	82.21	3/4		3/4	
8	4,265.41	8	3,513.01	8	2,786.62	8	2,097.86	8	1,460.45	8	891.64	8	415.50	8	77.22	8		8	
1/4	4,249.54	1/4	3,497.60	1/4	2,771.86	1/4	2,084.05	1/4	1,447.89	1/4	880.75	1/4	406.99	1/4	72.22	1/4		1/4	
1/2	4,233.66	1/2	3,482.19	1/2	2,757.10	1/2	2,070.25	1/2	1,435.34	1/2	869.87	1/2	398.48	1/2	67.23	1/2		1/2	
3/4	4,217.79	3/4	3,466.78	3/4	2,742.34	3/4	2,056.45	3/4	1,422.78	3/4	858.98	3/4	389.97	3/4	62.47	3/4		3/4	
9	4,201.91	9	3,451.37	9	2,727.58	9	2,042.64	9	1,410.23	9	848.10	9	381.45	9	57.94	9		9	
1/4	4,186.04	1/4	3,435.96	1/4	2,712.83	1/4	2,028.84	1/4	1,397.67	1/4	837.21	1/4	372.94	1/4	53.41	1/4		1/4	
1/2	4,170.16	1/2	3,420.55	1/2	2,698.07	1/2	2,015.03	1/2	1,385.12	1/2	826.33	1/2	364.43	1/2	48.88	1/2		1/2	
3/4	4,154.33	3/4	3,405.19	3/4	2,683.38	3/4	2,001.31	3/4	1,372.69	3/4	815.60	3/4	356.16	3/4	44.61	3/4		3/4	
10	4,138.54	10	3,389.88	10	2,668.78	10	1,987.67	10	1,360.38	10	805.03	10	348.13	10	40.61	10		10	
1/4	4,122.76	1/4	3,374.56	1/4	2,654.18	1/4	1,974.03	1/4	1,348.07	1/4	794.47	1/4	340.11	1/4	36.62	1/4		1/4	
1/2	4,106.97	1/2	3,359.25	1/2	2,639.57	1/2	1,960.39	1/2	1,335.75	1/2	783.90	1/2	332.08	1/2	32.62	1/2		1/2	
3/4	4,091.19	3/4	3,343.94	3/4	2,624.97	3/4	1,946.75	3/4	1,323.44	3/4	773.34	3/4	324.06	3/4	28.92	3/4		3/4	
11	4,075.40	11	3,328.62	11	2,610.36	11	1,933.11	11	1,311.13	11	762.77	11	316.03	11	25.54	11		11	
1/4	4,059.62	1/4	3,313.31	1/4	2,595.76	1/4	1,919.48	1/4	1,298.82	1/4	752.20	1/4	308.01	1/4	22.15	1/4		1/4	
1/2	4,043.83	1/2	3,298.00	1/2	2,581.16	1/2	1,905.84	1/2	1,286.51	1/2	741.64	1/2	299.98	1/2	18.76	1/2		1/2	
3/4	4,028.08	3/4	3,282.72	3/4	2,566.62	3/4	1,892.30	3/4	1,274.33	3/4	731.25	3/4	292.24	3/4	15.76	3/4		3/4	

DECK MEASUREMENTS: 09/08/1997 SI  
REPRINTED: 12/26/2001 CL

CANCELS AND SUPERCEDES  
ALL PRIOR TO 12/2001

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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