



BARGE "KIRBY 29116"

ULLAGE TRIM TABLE

	1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.	
	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>	<u>BOW</u>	<u>STERN</u>
1 PORT	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	01-7/8	- 01-7/8
1 STBD	00-3/8	- 00-3/8	00-5/8	- 00-5/8	01-0/8	- 01-0/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	01-7/8	- 01-7/8
2 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-3/4	- 01-3/4	02-1/8	- 02-1/8	02-1/2	- 02-1/2
2 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-1/2	- 02-1/2
3 PORT	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-1/2	- 02-1/2
3 STBD	00-3/8	- 00-3/8	00-7/8	- 00-7/8	01-1/4	- 01-1/4	01-5/8	- 01-5/8	02-0/8	- 02-0/8	02-1/2	- 02-1/2

(ALL MEASUREMENTS ABOVE ARE IN INCHES)

EXAMPLE FOR ABOVE TRIM CORRECTIONS:

FWD. DRAFT = 2'-00"
 AFT DRAFT = 4'-00"
 DIFF. = 2'-00" (DOWN BY STERN)

THE CORRECTION FOR 2'-00" TRIM DOWN BY STERN FOR 1 PORT IS - 00-5/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 PORT, THE TRIM CORRECTED ULLAGE IS 3'-11 3/8"

LENGTH BETWEEN DRAFT MARKS: 261'-00"

September 9, 2014

**PRECISION MEASUREMENT
& ANALYSIS, INC.**

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29116"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,947.39	0	4,615.58	0	4,277.16	0	3,922.27	0	3,551.46	0	3,175.83	0	2,798.66
1/4		1/4		1/4		1/4	4,942.02	1/4	4,608.70	1/4	4,269.93	1/4	3,914.70	1/4	3,543.64	1/4	3,167.97	1/4	2,790.80
1/2		1/2		1/2		1/2	4,936.66	1/2	4,601.82	1/2	4,262.71	1/2	3,907.14	1/2	3,535.81	1/2	3,160.12	1/2	2,782.94
3/4		3/4		3/4		3/4	4,929.99	3/4	4,594.92	3/4	4,255.46	3/4	3,899.54	3/4	3,527.99	3/4	3,152.26	3/4	2,775.08
1	1	1	1	1	1	1	4,923.33	1	4,588.01	1	4,248.21	1	3,891.94	1	3,520.17	1	3,144.40	1	2,767.23
1/4		1/4		1/4		1/4	4,916.67	1/4	4,581.11	1/4	4,240.96	1/4	3,884.35	1/4	3,512.34	1/4	3,136.54	1/4	2,759.37
1/2		1/2		1/2		1/2	4,910.01	1/2	4,574.20	1/2	4,233.71	1/2	3,876.75	1/2	3,504.52	1/2	3,128.69	1/2	2,751.51
3/4		3/4		3/4		3/4	4,902.41	3/4	4,567.27	3/4	4,226.43	3/4	3,869.13	3/4	3,496.70	3/4	3,120.83	3/4	2,743.65
2	2	2	2	2	2	2	4,894.82	2	4,560.33	2	4,219.16	2	3,861.51	2	3,488.87	2	3,112.97	2	2,735.80
1/4		1/4		1/4		1/4	4,887.22	1/4	4,553.40	1/4	4,211.88	1/4	3,853.89	1/4	3,481.05	1/4	3,105.11	1/4	2,727.94
1/2		1/2		1/2		1/2	4,879.63	1/2	4,546.46	1/2	4,204.60	1/2	3,846.26	1/2	3,473.23	1/2	3,097.25	1/2	2,720.08
3/4		3/4		3/4		3/4	4,871.81	3/4	4,539.50	3/4	4,197.29	3/4	3,838.62	3/4	3,465.41	3/4	3,089.40	3/4	2,712.22
3	3	3	3	3	3	3	4,863.98	3	4,532.54	3	4,189.99	3	3,830.97	3	3,457.58	3	3,081.54	3	2,704.36
1/4		1/4		1/4		1/4	4,856.16	1/4	4,525.57	1/4	4,182.68	1/4	3,823.32	1/4	3,449.76	1/4	3,073.68	1/4	2,696.51
1/2		1/2		1/2		1/2	4,848.34	1/2	4,518.61	1/2	4,175.37	1/2	3,815.67	1/2	3,441.94	1/2	3,065.82	1/2	2,688.65
3/4		3/4		3/4		3/4	4,840.95	3/4	4,511.62	3/4	4,168.04	3/4	3,807.99	3/4	3,434.11	3/4	3,057.97	3/4	2,680.79
4	4	4	4	4	4	4	4,833.56	4	4,504.62	4	4,160.70	4	3,800.31	4	3,426.29	4	3,050.11	4	2,672.93
1/4		1/4		1/4		1/4	4,826.17	1/4	4,497.63	1/4	4,153.37	1/4	3,792.63	1/4	3,418.47	1/4	3,042.25	1/4	2,665.08
1/2		1/2		1/2		1/2	4,818.78	1/2	4,490.64	1/2	4,146.03	1/2	3,784.95	1/2	3,410.64	1/2	3,034.39	1/2	2,657.22
3/4		3/4		3/4		3/4	4,812.10	3/4	4,483.62	3/4	4,138.67	3/4	3,777.25	3/4	3,402.82	3/4	3,026.53	3/4	2,649.36
5	5	5	5	5	5	5	4,805.42	5	4,476.60	5	4,131.30	5	3,769.54	5	3,395.00	5	3,018.68	5	2,641.50
1/4		1/4		1/4		1/4	4,798.74	1/4	4,469.58	1/4	4,123.94	1/4	3,761.83	1/4	3,387.18	1/4	3,010.82	1/4	2,633.64
1/2		1/2		1/2		1/2	4,792.06	1/2	4,462.56	1/2	4,116.58	1/2	3,754.13	1/2	3,379.35	1/2	3,002.96	1/2	2,625.79
3/4		3/4		3/4		3/4	4,785.35	3/4	4,455.51	3/4	4,109.18	3/4	3,746.39	3/4	3,371.53	3/4	2,995.10	3/4	2,617.93
6	6	6	6	6	6	6	4,778.65	6	4,448.46	6	4,101.79	6	3,738.65	6	3,363.71	6	2,987.25	6	2,610.07
1/4		1/4		1/4		1/4	4,771.94	1/4	4,441.40	1/4	4,094.40	1/4	3,730.92	1/4	3,355.88	1/4	2,979.39	1/4	2,602.21
1/2		1/2		1/2		1/2	4,765.23	1/2	4,434.35	1/2	4,087.01	1/2	3,723.18	1/2	3,348.06	1/2	2,971.53	1/2	2,594.36
3/4		3/4		3/4		3/4	4,758.50	3/4	4,427.28	3/4	4,079.58	3/4	3,715.42	3/4	3,340.24	3/4	2,963.67	3/4	2,586.50
7	7	7	7	7	7	7	4,751.76	7	4,420.20	7	4,072.16	7	3,707.65	7	3,332.41	7	2,955.81	7	2,578.64
1/4		1/4		1/4		1/4	4,745.02	1/4	4,413.12	1/4	4,064.74	1/4	3,699.89	1/4	3,324.59	1/4	2,947.96	1/4	2,570.78
1/2		1/2		1/2		1/2	4,738.28	1/2	4,406.04	1/2	4,057.32	1/2	3,692.12	1/2	3,316.77	1/2	2,940.10	1/2	2,562.92
3/4		3/4		3/4		3/4	4,731.52	3/4	4,398.93	3/4	4,049.87	3/4	3,684.33	3/4	3,308.95	3/4	2,932.24	3/4	2,555.07
8	8	8	8	8	8	8	4,724.75	8	4,391.82	8	4,042.42	8	3,676.54	8	3,301.12	8	2,924.38	8	2,547.21
1/4		1/4		1/4		1/4	4,717.99	1/4	4,384.71	1/4	4,034.96	1/4	3,668.74	1/4	3,293.30	1/4	2,916.53	1/4	2,539.35
1/2		1/2		1/2		1/2	4,711.22	1/2	4,377.60	1/2	4,027.51	1/2	3,660.95	1/2	3,285.48	1/2	2,908.67	1/2	2,531.49
3/4		3/4		3/4		3/4	4,704.43	3/4	4,370.47	3/4	4,020.03	3/4	3,653.13	3/4	3,277.65	3/4	2,900.81	3/4	2,523.64
9	9	9	9	9	9	9	4,697.63	9	4,363.33	9	4,012.55	9	3,645.32	9	3,269.83	9	2,892.95	9	2,515.78
1/4		1/4		1/4		1/4	4,690.84	1/4	4,356.19	1/4	4,005.07	1/4	3,637.50	1/4	3,262.01	1/4	2,885.09	1/4	2,507.92
1/2		1/2		1/2		1/2	4,684.04	1/2	4,349.06	1/2	3,997.59	1/2	3,629.69	1/2	3,254.18	1/2	2,877.24	1/2	2,500.06
3/4		3/4		3/4		3/4	4,677.22	3/4	4,341.89	3/4	3,990.08	3/4	3,621.87	3/4	3,246.36	3/4	2,869.38	3/4	2,492.20
10	10	10	10	10	10	10	4,670.40	10	4,334.72	10	3,982.58	10	3,614.04	10	3,238.54	10	2,861.52	10	2,484.35
1/4		1/4		1/4		1/4	4,663.57	1/4	4,327.55	1/4	3,975.07	1/4	3,606.22	1/4	3,230.72	1/4	2,853.66	1/4	2,476.49
1/2		1/2		1/2		1/2	4,656.75	1/2	4,320.39	1/2	3,967.56	1/2	3,598.40	1/2	3,222.89	1/2	2,845.81	1/2	2,468.63
3/4		3/4		3/4		3/4	4,649.89	3/4	4,313.19	3/4	3,960.02	3/4	3,590.57	3/4	3,215.06	3/4	2,837.95	3/4	2,460.77
11	11	11	11	11	11	11	4,643.04	11	4,306.00	11	3,952.48	11	3,582.75	11	3,207.22	11	2,830.09	11	2,452.92
1/4		1/4		1/4		1/4	4,636.19	1/4	4,298.80	1/4	3,944.94	1/4	3,574.93	1/4	3,199.38	1/4	2,822.23	1/4	2,445.06
1/2		1/2		1/2		1/2	4,629.33	1/2	4,291.61	1/2	3,937.40	1/2	3,567.10	1/2	3,191.55	1/2	2,814.37	1/2	2,437.20
3/4		3/4		3/4		3/4	4,622.46	3/4	4,284.38	3/4	3,929.84	3/4	3,559.28	3/4	3,183.69	3/4	2,806.52	3/4	2,429.34

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
 & ANALYSIS, INC.
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BARGE "KIRBY 29116"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,421.48	0	2,044.31	0	1,667.14	0	1,291.30	0	914.95	0	537.80	0	189.03	0		0		0	
1/4	2,413.63	1/4	2,036.45	1/4	1,659.28	1/4	1,283.49	1/4	907.09	1/4	529.95	1/4	182.41	1/4		1/4		1/4	
1/2	2,405.77	1/2	2,028.59	1/2	1,651.42	1/2	1,275.68	1/2	899.23	1/2	522.11	1/2	175.80	1/2		1/2		1/2	
3/4	2,397.91	3/4	2,020.74	3/4	1,643.56	3/4	1,267.87	3/4	891.37	3/4	514.31	3/4	169.29	3/4		3/4		3/4	
1	2,390.05	1	2,012.88	1	1,635.70	1	1,260.06	1	883.52	1	506.51	1	162.79	1		1		1	
1/4	2,382.19	1/4	2,005.02	1/4	1,627.85	1/4	1,252.26	1/4	875.66	1/4	498.71	1/4	156.29	1/4		1/4		1/4	
1/2	2,374.34	1/2	1,997.16	1/2	1,619.99	1/2	1,244.45	1/2	867.80	1/2	490.91	1/2	149.78	1/2		1/2		1/2	
3/4	2,366.48	3/4	1,989.30	3/4	1,612.13	3/4	1,236.64	3/4	859.94	3/4	483.20	3/4	143.39	3/4		3/4		3/4	
2	2,358.62	2	1,981.45	2	1,604.27	2	1,228.83	2	852.09	2	475.49	2	137.00	2		2		2	
1/4	2,350.76	1/4	1,973.59	1/4	1,596.41	1/4	1,221.02	1/4	844.23	1/4	467.79	1/4	130.62	1/4		1/4		1/4	
1/2	2,342.91	1/2	1,965.73	1/2	1,588.56	1/2	1,213.21	1/2	836.37	1/2	460.08	1/2	124.23	1/2		1/2		1/2	
3/4	2,335.05	3/4	1,957.87	3/4	1,580.70	3/4	1,205.41	3/4	828.51	3/4	452.48	3/4	117.96	3/4		3/4		3/4	
3	2,327.19	3	1,950.02	3	1,572.84	3	1,197.60	3	820.66	3	444.88	3	111.69	3		3		3	
1/4	2,319.33	1/4	1,942.16	1/4	1,564.98	1/4	1,189.79	1/4	812.80	1/4	437.28	1/4	105.42	1/4		1/4		1/4	
1/2	2,311.47	1/2	1,934.30	1/2	1,557.13	1/2	1,181.98	1/2	804.94	1/2	429.69	1/2	99.16	1/2		1/2		1/2	
3/4	2,303.62	3/4	1,926.44	3/4	1,549.28	3/4	1,174.15	3/4	797.08	3/4	422.20	3/4	93.02	3/4		3/4		3/4	
4	2,295.76	4	1,918.58	4	1,541.43	4	1,166.33	4	789.22	4	414.71	4	86.88	4		4		4	
1/4	2,287.90	1/4	1,910.73	1/4	1,533.59	1/4	1,158.50	1/4	781.37	1/4	407.22	1/4	80.74	1/4		1/4		1/4	
1/2	2,280.04	1/2	1,902.87	1/2	1,525.74	1/2	1,150.67	1/2	773.51	1/2	399.73	1/2	74.60	1/2		1/2		1/2	
3/4	2,272.19	3/4	1,895.01	3/4	1,517.91	3/4	1,142.82	3/4	765.65	3/4	392.35	3/4	68.60	3/4		3/4		3/4	
5	2,264.33	5	1,887.15	5	1,510.08	5	1,134.96	5	757.79	5	384.97	5	62.60	5		5		5	
1/4	2,256.47	1/4	1,879.30	1/4	1,502.25	1/4	1,127.10	1/4	749.94	1/4	377.59	1/4	56.61	1/4		1/4		1/4	
1/2	2,248.61	1/2	1,871.44	1/2	1,494.43	1/2	1,119.24	1/2	742.08	1/2	370.21	1/2	50.61	1/2		1/2		1/2	
3/4	2,240.75	3/4	1,863.58	3/4	1,486.60	3/4	1,111.39	3/4	734.22	3/4	362.94	3/4	45.20	3/4		3/4		3/4	
6	2,232.90	6	1,855.72	6	1,478.78	6	1,103.53	6	726.36	6	355.67	6	39.80	6		6		6	
1/4	2,225.04	1/4	1,847.86	1/4	1,470.95	1/4	1,095.67	1/4	718.51	1/4	348.40	1/4	34.39	1/4		1/4		1/4	
1/2	2,217.18	1/2	1,840.01	1/2	1,463.13	1/2	1,087.81	1/2	710.65	1/2	341.13	1/2	28.98	1/2		1/2		1/2	
3/4	2,209.32	3/4	1,832.15	3/4	1,455.32	3/4	1,079.96	3/4	702.79	3/4	333.96	3/4	25.03	3/4		3/4		3/4	
7	2,201.47	7	1,824.29	7	1,447.50	7	1,072.10	7	694.93	7	326.80	7	21.07	7		7		7	
1/4	2,193.61	1/4	1,816.43	1/4	1,439.68	1/4	1,064.24	1/4	687.08	1/4	319.64	1/4	17.12	1/4		1/4		1/4	
1/2	2,185.75	1/2	1,808.58	1/2	1,431.87	1/2	1,056.38	1/2	679.22	1/2	312.48	1/2	13.16	1/2		1/2		1/2	
3/4	2,177.89	3/4	1,800.72	3/4	1,424.06	3/4	1,048.53	3/4	671.36	3/4	305.43	3/4		3/4		3/4		3/4	
8	2,170.03	8	1,792.86	8	1,416.24	8	1,040.67	8	663.50	8	298.38	8		8		8		8	
1/4	2,162.18	1/4	1,785.00	1/4	1,408.43	1/4	1,032.81	1/4	655.65	1/4	291.32	1/4		1/4		1/4		1/4	
1/2	2,154.32	1/2	1,777.14	1/2	1,400.62	1/2	1,024.95	1/2	647.79	1/2	284.27	1/2		1/2		1/2		1/2	
3/4	2,146.46	3/4	1,769.29	3/4	1,392.81	3/4	1,017.10	3/4	639.93	3/4	277.33	3/4		3/4		3/4		3/4	
9	2,138.60	9	1,761.43	9	1,385.00	9	1,009.24	9	632.07	9	270.38	9		9		9		9	
1/4	2,130.75	1/4	1,753.57	1/4	1,377.19	1/4	1,001.38	1/4	624.22	1/4	263.44	1/4		1/4		1/4		1/4	
1/2	2,122.89	1/2	1,745.71	1/2	1,369.38	1/2	993.52	1/2	616.36	1/2	256.50	1/2		1/2		1/2		1/2	
3/4	2,115.03	3/4	1,737.86	3/4	1,361.58	3/4	985.66	3/4	608.50	3/4	249.66	3/4		3/4		3/4		3/4	
10	2,107.17	10	1,730.00	10	1,353.77	10	977.81	10	600.64	10	242.83	10		10		10		10	
1/4	2,099.31	1/4	1,722.14	1/4	1,345.96	1/4	969.95	1/4	592.78	1/4	235.99	1/4		1/4		1/4		1/4	
1/2	2,091.46	1/2	1,714.28	1/2	1,338.15	1/2	962.09	1/2	584.93	1/2	229.16	1/2		1/2		1/2		1/2	
3/4	2,083.60	3/4	1,706.42	3/4	1,330.34	3/4	954.23	3/4	577.07	3/4	222.44	3/4		3/4		3/4		3/4	
11	2,075.74	11	1,698.57	11	1,322.53	11	946.38	11	569.21	11	215.71	11		11		11		11	
1/4	2,067.88	1/4	1,690.71	1/4	1,314.72	1/4	938.52	1/4	561.35	1/4	208.99	1/4		1/4		1/4		1/4	
1/2	2,060.03	1/2	1,682.85	1/2	1,306.92	1/2	930.66	1/2	553.50	1/2	202.26	1/2		1/2		1/2		1/2	
3/4	2,052.17	3/4	1,674.99	3/4	1,299.11	3/4	922.80	3/4	545.65	3/4	195.65	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "KIRBY 29116"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,949.16	0	4,617.35	0	4,278.93	0	3,924.04	0	3,553.23	0	3,177.61	0	2,800.43
1/4		1/4		1/4		1/4	4,943.80	1/4	4,610.47	1/4	4,271.70	1/4	3,916.48	1/4	3,545.41	1/4	3,169.75	1/4	2,792.57
1/2		1/2		1/2		1/2	4,938.43	1/2	4,603.60	1/2	4,264.48	1/2	3,908.91	1/2	3,537.59	1/2	3,161.89	1/2	2,784.72
3/4		3/4		3/4		3/4	4,931.77	3/4	4,596.69	3/4	4,257.23	3/4	3,901.31	3/4	3,529.76	3/4	3,154.03	3/4	2,776.86
1	1	1	1	1	1	1	4,925.10	1	4,589.79	1	4,249.98	1	3,893.72	1	3,521.94	1	3,146.17	1	2,769.00
1/4		1/4		1/4		1/4	4,918.44	1/4	4,582.88	1/4	4,242.73	1/4	3,886.12	1/4	3,514.12	1/4	3,138.32	1/4	2,761.14
1/2		1/2		1/2		1/2	4,911.78	1/2	4,575.98	1/2	4,235.48	1/2	3,878.52	1/2	3,506.29	1/2	3,130.46	1/2	2,753.28
3/4		3/4		3/4		3/4	4,904.19	3/4	4,569.04	3/4	4,228.21	3/4	3,870.90	3/4	3,498.47	3/4	3,122.60	3/4	2,745.43
2	2	2	2	2	2	2	4,896.59	2	4,562.11	2	4,220.93	2	3,863.28	2	3,490.65	2	3,114.74	2	2,737.57
1/4		1/4		1/4		1/4	4,889.00	1/4	4,555.17	1/4	4,213.65	1/4	3,855.66	1/4	3,482.82	1/4	3,106.89	1/4	2,729.71
1/2		1/2		1/2		1/2	4,881.40	1/2	4,548.24	1/2	4,206.37	1/2	3,848.04	1/2	3,475.00	1/2	3,099.03	1/2	2,721.85
3/4		3/4		3/4		3/4	4,873.58	3/4	4,541.27	3/4	4,199.07	3/4	3,840.39	3/4	3,467.18	3/4	3,091.17	3/4	2,714.00
3	3	3	3	3	3	3	4,865.76	3	4,534.31	3	4,191.76	3	3,832.74	3	3,459.36	3	3,083.31	3	2,706.14
1/4		1/4		1/4		1/4	4,857.93	1/4	4,527.35	1/4	4,184.45	1/4	3,825.09	1/4	3,451.53	1/4	3,075.45	1/4	2,698.28
1/2		1/2		1/2		1/2	4,850.11	1/2	4,520.38	1/2	4,177.15	1/2	3,817.44	1/2	3,443.71	1/2	3,067.60	1/2	2,690.42
3/4		3/4		3/4		3/4	4,842.72	3/4	4,513.39	3/4	4,169.81	3/4	3,809.76	3/4	3,435.89	3/4	3,059.74	3/4	2,682.56
4	4	4	4	4	4	4	4,835.33	4	4,506.40	4	4,162.48	4	3,802.08	4	3,428.06	4	3,051.88	4	2,674.71
1/4		1/4		1/4		1/4	4,827.94	1/4	4,499.41	1/4	4,155.14	1/4	3,794.41	1/4	3,420.24	1/4	3,044.02	1/4	2,666.85
1/2		1/2		1/2		1/2	4,820.55	1/2	4,492.41	1/2	4,147.81	1/2	3,786.73	1/2	3,412.42	1/2	3,036.17	1/2	2,658.99
3/4		3/4		3/4		3/4	4,813.87	3/4	4,485.39	3/4	4,140.44	3/4	3,779.02	3/4	3,404.59	3/4	3,028.31	3/4	2,651.13
5	5	5	5	5	5	5	4,807.19	5	4,478.37	5	4,133.08	5	3,771.31	5	3,396.77	5	3,020.45	5	2,643.28
1/4		1/4		1/4		1/4	4,800.51	1/4	4,471.35	1/4	4,125.71	1/4	3,763.61	1/4	3,388.95	1/4	3,012.59	1/4	2,635.42
1/2		1/2		1/2		1/2	4,793.83	1/2	4,464.33	1/2	4,118.35	1/2	3,755.90	1/2	3,381.13	1/2	3,004.73	1/2	2,627.56
3/4		3/4		3/4		3/4	4,787.13	3/4	4,457.28	3/4	4,110.96	3/4	3,748.16	3/4	3,373.30	3/4	2,996.88	3/4	2,619.70
6	6	6	6	6	6	6	4,780.42	6	4,450.23	6	4,103.56	6	3,740.43	6	3,365.48	6	2,989.02	6	2,611.84
1/4		1/4		1/4		1/4	4,773.71	1/4	4,443.18	1/4	4,096.17	1/4	3,732.69	1/4	3,357.66	1/4	2,981.16	1/4	2,603.99
1/2		1/2		1/2		1/2	4,767.01	1/2	4,436.13	1/2	4,088.78	1/2	3,724.95	1/2	3,349.83	1/2	2,973.30	1/2	2,596.13
3/4		3/4		3/4		3/4	4,760.27	3/4	4,429.05	3/4	4,081.36	3/4	3,717.19	3/4	3,342.01	3/4	2,965.44	3/4	2,588.27
7	7	7	7	7	7	7	4,753.53	7	4,421.97	7	4,073.93	7	3,709.43	7	3,334.19	7	2,957.59	7	2,580.41
1/4		1/4		1/4		1/4	4,746.79	1/4	4,414.89	1/4	4,066.51	1/4	3,701.66	1/4	3,326.36	1/4	2,949.73	1/4	2,572.55
1/2		1/2		1/2		1/2	4,740.06	1/2	4,407.81	1/2	4,059.09	1/2	3,693.90	1/2	3,318.54	1/2	2,941.87	1/2	2,564.70
3/4		3/4		3/4		3/4	4,733.29	3/4	4,400.70	3/4	4,051.64	3/4	3,686.10	3/4	3,310.72	3/4	2,934.01	3/4	2,556.84
8	8	8	8	8	8	8	4,726.53	8	4,393.59	8	4,044.19	8	3,678.31	8	3,302.90	8	2,926.16	8	2,548.98
1/4		1/4		1/4		1/4	4,719.76	1/4	4,386.49	1/4	4,036.74	1/4	3,670.52	1/4	3,295.07	1/4	2,918.30	1/4	2,541.12
1/2		1/2		1/2		1/2	4,713.00	1/2	4,379.38	1/2	4,029.29	1/2	3,662.72	1/2	3,287.25	1/2	2,910.44	1/2	2,533.27
3/4		3/4		3/4		3/4	4,706.20	3/4	4,372.24	3/4	4,021.81	3/4	3,654.91	3/4	3,279.43	3/4	2,902.58	3/4	2,525.41
9	9	9	9	9	9	9	4,699.41	9	4,365.10	9	4,014.33	9	3,647.09	9	3,271.60	9	2,894.72	9	2,517.55
1/4		1/4		1/4		1/4	4,692.61	1/4	4,357.97	1/4	4,006.85	1/4	3,639.28	1/4	3,263.78	1/4	2,886.87	1/4	2,509.69
1/2		1/2		1/2		1/2	4,685.81	1/2	4,350.83	1/2	3,999.37	1/2	3,631.46	1/2	3,255.96	1/2	2,879.01	1/2	2,501.83
3/4		3/4		3/4		3/4	4,678.99	3/4	4,343.66	3/4	3,991.86	3/4	3,623.64	3/4	3,248.13	3/4	2,871.15	3/4	2,493.98
10	10	10	10	10	10	10	4,672.17	10	4,336.49	10	3,984.35	10	3,615.82	10	3,240.31	10	2,863.29	10	2,486.12
1/4		1/4		1/4		1/4	4,665.35	1/4	4,329.33	1/4	3,976.84	1/4	3,607.99	1/4	3,232.49	1/4	2,855.44	1/4	2,478.26
1/2		1/2		1/2		1/2	4,658.52	1/2	4,322.16	1/2	3,969.33	1/2	3,600.17	1/2	3,224.67	1/2	2,847.58	1/2	2,470.40
3/4		3/4		3/4		3/4	4,651.67	3/4	4,314.97	3/4	3,961.79	3/4	3,592.35	3/4	3,216.83	3/4	2,839.72	3/4	2,462.55
11	11	11	11	11	11	11	4,644.81	11	4,307.77	11	3,954.25	11	3,584.52	11	3,208.99	11	2,831.86	11	2,454.69
1/4		1/4		1/4		1/4	4,637.96	1/4	4,300.58	1/4	3,946.72	1/4	3,576.70	1/4	3,201.16	1/4	2,824.00	1/4	2,446.83
1/2		1/2		1/2		1/2	4,631.11	1/2	4,293.38	1/2	3,939.18	1/2	3,568.88	1/2	3,193.32	1/2	2,816.15	1/2	2,438.97
3/4		3/4		3/4		3/4	4,624.23	3/4	4,286.16	3/4	3,931.61	3/4	3,561.05	3/4	3,185.46	3/4	2,808.29	3/4	2,431.11

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-00" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29116"

**1 STBD
ULLAGE TABLE**

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,423.26	0	2,046.08	0	1,668.91	0	1,291.73	0	914.84	0	537.80	0	189.03	0		0		0	
1/4	2,415.40	1/4	2,038.22	1/4	1,661.05	1/4	1,283.88	1/4	907.00	1/4	529.95	1/4	182.41	1/4		1/4		1/4	
1/2	2,407.54	1/2	2,030.37	1/2	1,653.19	1/2	1,276.02	1/2	899.15	1/2	522.11	1/2	175.80	1/2		1/2		1/2	
3/4	2,399.68	3/4	2,022.51	3/4	1,645.33	3/4	1,268.16	3/4	891.31	3/4	514.31	3/4	169.29	3/4		3/4		3/4	
1	2,391.83	1	2,014.65	1	1,637.48	1	1,260.30	1	883.46	1	506.51	1	162.79	1		1		1	
1/4	2,383.97	1/4	2,006.79	1/4	1,629.62	1/4	1,252.44	1/4	875.62	1/4	498.71	1/4	156.29	1/4		1/4		1/4	
1/2	2,376.11	1/2	1,998.94	1/2	1,621.76	1/2	1,244.59	1/2	867.77	1/2	490.91	1/2	149.78	1/2		1/2		1/2	
3/4	2,368.25	3/4	1,991.08	3/4	1,613.90	3/4	1,236.73	3/4	859.92	3/4	483.20	3/4	143.39	3/4		3/4		3/4	
2	2,360.39	2	1,983.22	2	1,606.05	2	1,228.87	2	852.07	2	475.49	2	137.00	2		2		2	
1/4	2,352.54	1/4	1,975.36	1/4	1,598.19	1/4	1,221.01	1/4	844.22	1/4	467.79	1/4	130.62	1/4		1/4		1/4	
1/2	2,344.68	1/2	1,967.50	1/2	1,590.33	1/2	1,213.16	1/2	836.37	1/2	460.08	1/2	124.23	1/2		1/2		1/2	
3/4	2,336.82	3/4	1,959.65	3/4	1,582.47	3/4	1,205.30	3/4	828.51	3/4	452.48	3/4	117.96	3/4		3/4		3/4	
3	2,328.96	3	1,951.79	3	1,574.61	3	1,197.44	3	820.66	3	444.88	3	111.69	3		3		3	
1/4	2,321.11	1/4	1,943.93	1/4	1,566.76	1/4	1,189.58	1/4	812.80	1/4	437.28	1/4	105.42	1/4		1/4		1/4	
1/2	2,313.25	1/2	1,936.07	1/2	1,558.90	1/2	1,181.72	1/2	804.94	1/2	429.69	1/2	99.16	1/2		1/2		1/2	
3/4	2,305.39	3/4	1,928.22	3/4	1,551.04	3/4	1,173.87	3/4	797.08	3/4	422.20	3/4	93.02	3/4		3/4		3/4	
4	2,297.53	4	1,920.36	4	1,543.18	4	1,166.01	4	789.22	4	414.71	4	86.88	4		4		4	
1/4	2,289.67	1/4	1,912.50	1/4	1,535.33	1/4	1,158.15	1/4	781.37	1/4	407.22	1/4	80.74	1/4		1/4		1/4	
1/2	2,281.82	1/2	1,904.64	1/2	1,527.47	1/2	1,150.29	1/2	773.51	1/2	399.73	1/2	74.60	1/2		1/2		1/2	
3/4	2,273.96	3/4	1,896.78	3/4	1,519.61	3/4	1,142.44	3/4	765.65	3/4	392.35	3/4	68.60	3/4		3/4		3/4	
5	2,266.10	5	1,888.93	5	1,511.75	5	1,134.58	5	757.79	5	384.97	5	62.60	5		5		5	
1/4	2,258.24	1/4	1,881.07	1/4	1,503.89	1/4	1,126.72	1/4	749.94	1/4	377.59	1/4	56.61	1/4		1/4		1/4	
1/2	2,250.39	1/2	1,873.21	1/2	1,496.04	1/2	1,118.86	1/2	742.08	1/2	370.21	1/2	50.61	1/2		1/2		1/2	
3/4	2,242.53	3/4	1,865.35	3/4	1,488.18	3/4	1,111.01	3/4	734.22	3/4	362.94	3/4	45.20	3/4		3/4		3/4	
6	2,234.67	6	1,857.50	6	1,480.32	6	1,103.16	6	726.36	6	355.67	6	39.80	6		6		6	
1/4	2,226.81	1/4	1,849.64	1/4	1,472.46	1/4	1,095.30	1/4	718.51	1/4	348.40	1/4	34.39	1/4		1/4		1/4	
1/2	2,218.95	1/2	1,841.78	1/2	1,464.61	1/2	1,087.45	1/2	710.65	1/2	341.13	1/2	28.98	1/2		1/2		1/2	
3/4	2,211.10	3/4	1,833.92	3/4	1,456.75	3/4	1,079.60	3/4	702.79	3/4	333.96	3/4	25.03	3/4		3/4		3/4	
7	2,203.24	7	1,826.06	7	1,448.89	7	1,071.76	7	694.93	7	326.80	7	21.07	7		7		7	
1/4	2,195.38	1/4	1,818.21	1/4	1,441.03	1/4	1,063.91	1/4	687.08	1/4	319.64	1/4	17.12	1/4		1/4		1/4	
1/2	2,187.52	1/2	1,810.35	1/2	1,433.17	1/2	1,056.07	1/2	679.22	1/2	312.48	1/2	13.16	1/2		1/2		1/2	
3/4	2,179.66	3/4	1,802.49	3/4	1,425.32	3/4	1,048.22	3/4	671.36	3/4	305.43	3/4		3/4		3/4		3/4	
8	2,171.81	8	1,794.63	8	1,417.46	8	1,040.38	8	663.50	8	298.38	8		8		8		8	
1/4	2,163.95	1/4	1,786.77	1/4	1,409.60	1/4	1,032.53	1/4	655.65	1/4	291.32	1/4		1/4		1/4		1/4	
1/2	2,156.09	1/2	1,778.92	1/2	1,401.74	1/2	1,024.68	1/2	647.79	1/2	284.27	1/2		1/2		1/2		1/2	
3/4	2,148.23	3/4	1,771.06	3/4	1,393.88	3/4	1,016.84	3/4	639.93	3/4	277.33	3/4		3/4		3/4		3/4	
9	2,140.38	9	1,763.20	9	1,386.03	9	1,008.99	9	632.07	9	270.38	9		9		9		9	
1/4	2,132.52	1/4	1,755.34	1/4	1,378.17	1/4	1,001.15	1/4	624.22	1/4	263.44	1/4		1/4		1/4		1/4	
1/2	2,124.66	1/2	1,747.49	1/2	1,370.31	1/2	993.30	1/2	616.36	1/2	256.50	1/2		1/2		1/2		1/2	
3/4	2,116.80	3/4	1,739.63	3/4	1,362.45	3/4	985.46	3/4	608.50	3/4	249.66	3/4		3/4		3/4		3/4	
10	2,108.94	10	1,731.77	10	1,354.60	10	977.61	10	600.64	10	242.83	10		10		10		10	
1/4	2,101.09	1/4	1,723.91	1/4	1,346.74	1/4	969.76	1/4	592.78	1/4	235.99	1/4		1/4		1/4		1/4	
1/2	2,093.23	1/2	1,716.05	1/2	1,338.88	1/2	961.92	1/2	584.93	1/2	229.16	1/2		1/2		1/2		1/2	
3/4	2,085.37	3/4	1,708.20	3/4	1,331.02	3/4	954.07	3/4	577.07	3/4	222.44	3/4		3/4		3/4		3/4	
11	2,077.51	11	1,700.34	11	1,323.16	11	946.23	11	569.21	11	215.71	11		11		11		11	
1/4	2,069.66	1/4	1,692.48	1/4	1,315.31	1/4	938.38	1/4	561.35	1/4	208.99	1/4		1/4		1/4		1/4	
1/2	2,061.80	1/2	1,684.62	1/2	1,307.45	1/2	930.54	1/2	553.50	1/2	202.26	1/2		1/2		1/2		1/2	
3/4	2,053.94	3/4	1,676.77	3/4	1,299.59	3/4	922.69	3/4	545.65	3/4	195.65	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "KIRBY 29116"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	0	0	4,454.59	0	4,131.52	0	3,793.31	0	3,440.41	0	3,082.87	0	2,723.87
1/4		1/4		1/4		1/4	4,764.96	1/4	4,448.01	1/4	4,124.62	1/4	3,786.10	1/4	3,432.96	1/4	3,075.39	1/4	2,716.39
1/2		1/2		1/2		1/2	4,759.85	1/2	4,441.43	1/2	4,117.72	1/2	3,778.89	1/2	3,425.52	1/2	3,067.91	1/2	2,708.91
3/4		3/4		3/4		3/4	4,754.74	3/4	4,434.85	3/4	4,110.82	3/4	3,771.68	3/4	3,418.07	3/4	3,060.43	3/4	2,701.43
1	1	1	1	1	1	1	4,748.40	1	4,428.25	1	4,103.90	1	3,764.44	1	3,410.62	1	3,052.95	1	2,693.96
1/4		1/4		1/4		1/4	4,742.06	1/4	4,421.64	1/4	4,096.98	1/4	3,757.20	1/4	3,403.17	1/4	3,045.47	1/4	2,686.48
1/2		1/2		1/2		1/2	4,735.72	1/2	4,415.04	1/2	4,090.06	1/2	3,749.96	1/2	3,395.73	1/2	3,037.99	1/2	2,679.00
3/4		3/4		3/4		3/4	4,729.38	3/4	4,408.44	3/4	4,083.14	3/4	3,742.72	3/4	3,388.28	3/4	3,030.51	3/4	2,671.52
2	2	2	2	2	2	2	4,722.15	2	4,401.80	2	4,076.20	2	3,735.46	2	3,380.83	2	3,023.04	2	2,664.04
1/4		1/4		1/4		1/4	4,714.93	1/4	4,395.17	1/4	4,069.25	1/4	3,728.20	1/4	3,373.39	1/4	3,015.56	1/4	2,656.56
1/2		1/2		1/2		1/2	4,707.70	1/2	4,388.54	1/2	4,062.31	1/2	3,720.94	1/2	3,365.94	1/2	3,008.08	1/2	2,649.08
3/4		3/4		3/4		3/4	4,700.47	3/4	4,381.91	3/4	4,055.36	3/4	3,713.68	3/4	3,358.49	3/4	3,000.60	3/4	2,641.60
3	3	3	3	3	3	3	4,693.03	3	4,375.25	3	4,048.39	3	3,706.39	3	3,351.05	3	2,993.12	3	2,634.12
1/4		1/4		1/4		1/4	4,685.58	1/4	4,368.60	1/4	4,041.41	1/4	3,699.10	1/4	3,343.60	1/4	2,985.64	1/4	2,626.64
1/2		1/2		1/2		1/2	4,678.13	1/2	4,361.94	1/2	4,034.44	1/2	3,691.82	1/2	3,336.15	1/2	2,978.16	1/2	2,619.16
3/4		3/4		3/4		3/4	4,670.69	3/4	4,355.28	3/4	4,027.47	3/4	3,684.53	3/4	3,328.70	3/4	2,970.68	3/4	2,611.69
4	4	4	4	4	4	4	4,663.64	4	4,348.60	4	4,020.47	4	3,677.21	4	3,321.26	4	2,963.20	4	2,604.21
1/4		1/4		1/4		1/4	4,656.59	1/4	4,341.91	1/4	4,013.47	1/4	3,669.90	1/4	3,313.81	1/4	2,955.72	1/4	2,596.73
1/2		1/2		1/2		1/2	4,649.54	1/2	4,335.23	1/2	4,006.47	1/2	3,662.59	1/2	3,306.36	1/2	2,948.24	1/2	2,589.25
3/4		3/4		3/4		3/4	4,642.49	3/4	4,328.54	3/4	3,999.47	3/4	3,655.27	3/4	3,298.92	3/4	2,940.77	3/4	2,581.77
5	5	5	5	5	5	5	4,636.09	5	4,321.83	5	3,992.45	5	3,647.93	5	3,291.47	5	2,933.29	5	2,574.29
1/4		1/4		1/4		1/4	4,629.70	1/4	4,315.12	1/4	3,985.42	1/4	3,640.59	1/4	3,284.02	1/4	2,925.81	1/4	2,566.81
1/2		1/2		1/2		1/2	4,623.30	1/2	4,308.41	1/2	3,978.40	1/2	3,633.25	1/2	3,276.58	1/2	2,918.33	1/2	2,559.33
3/4		3/4		3/4		3/4	4,616.90	3/4	4,301.70	3/4	3,971.37	3/4	3,625.91	3/4	3,269.13	3/4	2,910.85	3/4	2,551.85
6	6	6	6	6	6	6	4,610.48	6	4,294.97	6	3,964.32	6	3,618.54	6	3,261.68	6	2,903.37	6	2,544.37
1/4		1/4		1/4		1/4	4,604.06	1/4	4,288.23	1/4	3,957.27	1/4	3,611.18	1/4	3,254.23	1/4	2,895.89	1/4	2,536.89
1/2		1/2		1/2		1/2	4,597.64	1/2	4,281.49	1/2	3,950.22	1/2	3,603.81	1/2	3,246.79	1/2	2,888.41	1/2	2,529.42
3/4		3/4		3/4		3/4	4,591.22	3/4	4,274.76	3/4	3,943.17	3/4	3,596.44	3/4	3,239.34	3/4	2,880.93	3/4	2,521.94
7	7	7	7	7	7	7	4,584.77	7	4,267.99	7	3,936.09	7	3,589.05	7	3,231.89	7	2,873.45	7	2,514.46
1/4		1/4		1/4		1/4	4,578.32	1/4	4,261.23	1/4	3,929.01	1/4	3,581.66	1/4	3,224.45	1/4	2,865.97	1/4	2,506.98
1/2		1/2		1/2		1/2	4,571.87	1/2	4,254.47	1/2	3,921.93	1/2	3,574.26	1/2	3,217.00	1/2	2,858.50	1/2	2,499.50
3/4		3/4		3/4		3/4	4,565.42	3/4	4,247.70	3/4	3,914.85	3/4	3,566.87	3/4	3,209.55	3/4	2,851.02	3/4	2,492.02
8	8	8	8	8	8	8	4,558.94	8	4,240.91	8	3,907.75	8	3,559.45	8	3,202.11	8	2,843.54	8	2,484.54
1/4		1/4		1/4		1/4	4,552.47	1/4	4,234.12	1/4	3,900.64	1/4	3,552.03	1/4	3,194.66	1/4	2,836.06	1/4	2,477.06
1/2		1/2		1/2		1/2	4,545.99	1/2	4,227.33	1/2	3,893.54	1/2	3,544.61	1/2	3,187.21	1/2	2,828.58	1/2	2,469.58
3/4		3/4		3/4		3/4	4,539.52	3/4	4,220.54	3/4	3,886.43	3/4	3,537.19	3/4	3,179.76	3/4	2,821.10	3/4	2,462.10
9	9	9	9	9	9	9	4,533.01	9	4,213.72	9	3,879.30	9	3,529.75	9	3,172.32	9	2,813.62	9	2,454.62
1/4		1/4		1/4		1/4	4,526.51	1/4	4,206.90	1/4	3,872.17	1/4	3,522.31	1/4	3,164.87	1/4	2,806.14	1/4	2,447.15
1/2		1/2		1/2		1/2	4,520.01	1/2	4,200.09	1/2	3,865.03	1/2	3,514.87	1/2	3,157.42	1/2	2,798.66	1/2	2,439.67
3/4		3/4		3/4		3/4	4,513.50	3/4	4,193.27	3/4	3,857.90	3/4	3,507.43	3/4	3,149.98	3/4	2,791.18	3/4	2,432.19
10	10	10	10	10	10	10	4,506.98	10	4,186.43	10	3,850.74	10	3,499.99	10	3,142.53	10	2,783.70	10	2,424.71
1/4		1/4		1/4		1/4	4,500.45	1/4	4,179.58	1/4	3,843.59	1/4	3,492.54	1/4	3,135.08	1/4	2,776.23	1/4	2,417.23
1/2		1/2		1/2		1/2	4,493.92	1/2	4,172.74	1/2	3,836.43	1/2	3,485.09	1/2	3,127.64	1/2	2,768.75	1/2	2,409.75
3/4		3/4		3/4		3/4	4,487.39	3/4	4,165.89	3/4	3,829.27	3/4	3,477.64	3/4	3,120.19	3/4	2,761.27	3/4	2,402.27
11	11	11	11	11	11	11	4,480.83	11	4,159.02	11	3,822.08	11	3,470.20	11	3,112.73	11	2,753.79	11	2,394.79
1/4		1/4		1/4		1/4	4,474.28	1/4	4,152.15	1/4	3,814.90	1/4	3,462.75	1/4	3,105.27	1/4	2,746.31	1/4	2,387.31
1/2		1/2		1/2		1/2	4,467.72	1/2	4,145.28	1/2	3,807.71	1/2	3,455.30	1/2	3,097.81	1/2	2,738.83	1/2	2,379.83
3/4		3/4		3/4		3/4	4,461.16	3/4	4,138.41	3/4	3,800.53	3/4	3,447.86	3/4	3,090.35	3/4	2,731.35	3/4	2,372.35

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29116"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

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	2,364.88	0	2,005.88	0	1,646.88	0	1,296.51	0	951.72	0	594.40	0	235.41	0		0		0	
1/4	2,357.40	1/4	1,998.40	1/4	1,639.40	1/4	1,289.31	1/4	944.54	1/4	586.92	1/4	227.93	1/4		1/4		1/4	
1/2	2,349.92	1/2	1,990.92	1/2	1,631.92	1/2	1,282.12	1/2	937.37	1/2	579.44	1/2	220.45	1/2		1/2		1/2	
3/4	2,342.44	3/4	1,983.44	3/4	1,624.44	3/4	1,274.92	3/4	930.19	3/4	571.96	3/4	212.97	3/4		3/4		3/4	
1	2,334.96	1	1,975.96	1	1,616.97	1	1,267.73	1	922.90	1	564.48	1	205.50	1		1		1	
1/4	2,327.48	1/4	1,968.48	1/4	1,609.49	1/4	1,260.53	1/4	915.61	1/4	557.00	1/4	198.02	1/4		1/4		1/4	
1/2	2,320.00	1/2	1,961.00	1/2	1,602.01	1/2	1,253.33	1/2	908.32	1/2	549.52	1/2	190.54	1/2		1/2		1/2	
3/4	2,312.52	3/4	1,953.52	3/4	1,594.53	3/4	1,246.14	3/4	901.03	3/4	542.04	3/4	183.07	3/4		3/4		3/4	
2	2,305.04	2	1,946.05	2	1,587.05	2	1,238.94	2	893.55	2	534.56	2	175.60	2		2		2	
1/4	2,297.56	1/4	1,938.57	1/4	1,579.57	1/4	1,231.75	1/4	886.07	1/4	527.09	1/4	168.13	1/4		1/4		1/4	
1/2	2,290.08	1/2	1,931.09	1/2	1,572.09	1/2	1,224.55	1/2	878.59	1/2	519.61	1/2	160.65	1/2		1/2		1/2	
3/4	2,282.60	3/4	1,923.61	3/4	1,564.61	3/4	1,217.35	3/4	871.12	3/4	512.13	3/4	153.18	3/4		3/4		3/4	
3	2,275.13	3	1,916.13	3	1,557.13	3	1,210.16	3	863.64	3	504.65	3	145.72	3		3		3	
1/4	2,267.65	1/4	1,908.65	1/4	1,549.65	1/4	1,202.97	1/4	856.16	1/4	497.17	1/4	138.27	1/4		1/4		1/4	
1/2	2,260.17	1/2	1,901.17	1/2	1,542.17	1/2	1,195.78	1/2	848.68	1/2	489.69	1/2	130.81	1/2		1/2		1/2	
3/4	2,252.69	3/4	1,893.69	3/4	1,534.69	3/4	1,188.59	3/4	841.20	3/4	482.21	3/4	123.35	3/4		3/4		3/4	
4	2,245.21	4	1,886.21	4	1,527.32	4	1,181.40	4	833.72	4	474.73	4	115.91	4		4		4	
1/4	2,237.73	1/4	1,878.73	1/4	1,519.95	1/4	1,174.22	1/4	826.24	1/4	467.25	1/4	108.47	1/4		1/4		1/4	
1/2	2,230.25	1/2	1,871.25	1/2	1,512.57	1/2	1,167.04	1/2	818.76	1/2	459.78	1/2	101.02	1/2		1/2		1/2	
3/4	2,222.77	3/4	1,863.78	3/4	1,505.20	3/4	1,159.85	3/4	811.28	3/4	452.30	3/4	93.58	3/4		3/4		3/4	
5	2,215.29	5	1,856.30	5	1,498.00	5	1,152.67	5	803.81	5	444.82	5	86.17	5		5		5	
1/4	2,207.81	1/4	1,848.82	1/4	1,490.81	1/4	1,145.49	1/4	796.33	1/4	437.34	1/4	78.76	1/4		1/4		1/4	
1/2	2,200.33	1/2	1,841.34	1/2	1,483.61	1/2	1,138.31	1/2	788.85	1/2	429.86	1/2	71.35	1/2		1/2		1/2	
3/4	2,192.86	3/4	1,833.86	3/4	1,476.42	3/4	1,131.13	3/4	781.37	3/4	422.38	3/4	63.94	3/4		3/4		3/4	
6	2,185.38	6	1,826.38	6	1,469.22	6	1,123.95	6	773.89	6	414.90	6	56.99	6		6		6	
1/4	2,177.90	1/4	1,818.90	1/4	1,462.02	1/4	1,116.77	1/4	766.41	1/4	407.42	1/4	50.04	1/4		1/4		1/4	
1/2	2,170.42	1/2	1,811.42	1/2	1,454.83	1/2	1,109.60	1/2	758.93	1/2	399.94	1/2	43.09	1/2		1/2		1/2	
3/4	2,162.94	3/4	1,803.94	3/4	1,447.63	3/4	1,102.42	3/4	751.45	3/4	392.47	3/4	36.14	3/4		3/4		3/4	
7	2,155.46	7	1,796.46	7	1,440.44	7	1,095.25	7	743.97	7	384.99	7	30.84	7		7		7	
1/4	2,147.98	1/4	1,788.98	1/4	1,433.24	1/4	1,088.07	1/4	736.50	1/4	377.51	1/4	25.55	1/4		1/4		1/4	
1/2	2,140.50	1/2	1,781.51	1/2	1,426.04	1/2	1,080.89	1/2	729.02	1/2	370.03	1/2	20.26	1/2		1/2		1/2	
3/4	2,133.02	3/4	1,774.03	3/4	1,418.85	3/4	1,073.72	3/4	721.54	3/4	362.55	3/4	14.96	3/4		3/4		3/4	
8	2,125.54	8	1,766.55	8	1,411.65	8	1,066.54	8	714.06	8	355.07	8		8		8		8	
1/4	2,118.06	1/4	1,759.07	1/4	1,404.45	1/4	1,059.36	1/4	706.58	1/4	347.59	1/4		1/4		1/4		1/4	
1/2	2,110.59	1/2	1,751.59	1/2	1,397.26	1/2	1,052.19	1/2	699.10	1/2	340.11	1/2		1/2		1/2		1/2	
3/4	2,103.11	3/4	1,744.11	3/4	1,390.06	3/4	1,045.01	3/4	691.62	3/4	332.63	3/4		3/4		3/4		3/4	
9	2,095.63	9	1,736.63	9	1,382.87	9	1,037.84	9	684.14	9	325.16	9		9		9		9	
1/4	2,088.15	1/4	1,729.15	1/4	1,375.67	1/4	1,030.66	1/4	676.66	1/4	317.68	1/4		1/4		1/4		1/4	
1/2	2,080.67	1/2	1,721.67	1/2	1,368.47	1/2	1,023.48	1/2	669.19	1/2	310.20	1/2		1/2		1/2		1/2	
3/4	2,073.19	3/4	1,714.19	3/4	1,361.28	3/4	1,016.31	3/4	661.71	3/4	302.72	3/4		3/4		3/4		3/4	
10	2,065.71	10	1,706.71	10	1,354.08	10	1,009.13	10	654.23	10	295.24	10		10		10		10	
1/4	2,058.23	1/4	1,699.24	1/4	1,346.88	1/4	1,001.95	1/4	646.75	1/4	287.76	1/4		1/4		1/4		1/4	
1/2	2,050.75	1/2	1,691.76	1/2	1,339.69	1/2	994.78	1/2	639.27	1/2	280.28	1/2		1/2		1/2		1/2	
3/4	2,043.27	3/4	1,684.28	3/4	1,332.49	3/4	987.60	3/4	631.79	3/4	272.80	3/4		3/4		3/4		3/4	
11	2,035.79	11	1,676.80	11	1,325.30	11	980.42	11	624.31	11	265.32	11		11		11		11	
1/4	2,028.32	1/4	1,669.32	1/4	1,318.10	1/4	973.25	1/4	616.83	1/4	257.85	1/4		1/4		1/4		1/4	
1/2	2,020.84	1/2	1,661.84	1/2	1,310.90	1/2	966.07	1/2	609.35	1/2	250.37	1/2		1/2		1/2		1/2	
3/4	2,013.36	3/4	1,654.36	3/4	1,303.71	3/4	958.90	3/4	601.87	3/4	242.89	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "KIRBY 29116"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 52'-03" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29116"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

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	2,398.22	0	2,038.96	0	1,679.70	0	1,320.44	0	961.44	0	602.31	0	243.06	0		0		0	
1/4	2,390.73	1/4	2,031.47	1/4	1,672.21	1/4	1,312.95	1/4	953.96	1/4	594.83	1/4	235.58	1/4		1/4		1/4	
1/2	2,383.25	1/2	2,023.99	1/2	1,664.73	1/2	1,305.47	1/2	946.49	1/2	587.34	1/2	228.10	1/2		1/2		1/2	
3/4	2,375.76	3/4	2,016.50	3/4	1,657.24	3/4	1,297.98	3/4	939.02	3/4	579.86	3/4	220.61	3/4		3/4		3/4	
1	2,368.28	1	2,009.02	1	1,649.76	1	1,290.50	1	931.55	1	572.37	1	213.13	1		1		1	
1/4	2,360.80	1/4	2,001.53	1/4	1,642.27	1/4	1,283.01	1/4	924.08	1/4	564.89	1/4	205.65	1/4		1/4		1/4	
1/2	2,353.31	1/2	1,994.05	1/2	1,634.79	1/2	1,275.53	1/2	916.60	1/2	557.41	1/2	198.16	1/2		1/2		1/2	
3/4	2,345.83	3/4	1,986.57	3/4	1,627.30	3/4	1,268.04	3/4	909.13	3/4	549.92	3/4	190.68	3/4		3/4		3/4	
2	2,338.34	2	1,979.08	2	1,619.82	2	1,260.56	2	901.66	2	542.44	2	183.20	2		2		2	
1/4	2,330.86	1/4	1,971.60	1/4	1,612.34	1/4	1,253.07	1/4	894.18	1/4	534.95	1/4	175.72	1/4		1/4		1/4	
1/2	2,323.37	1/2	1,964.11	1/2	1,604.85	1/2	1,245.59	1/2	886.70	1/2	527.47	1/2	168.25	1/2		1/2		1/2	
3/4	2,315.89	3/4	1,956.63	3/4	1,597.37	3/4	1,238.11	3/4	879.22	3/4	519.98	3/4	160.77	3/4		3/4		3/4	
3	2,308.40	3	1,949.14	3	1,589.88	3	1,230.62	3	871.75	3	512.50	3	153.30	3		3		3	
1/4	2,300.92	1/4	1,941.66	1/4	1,582.40	1/4	1,223.14	1/4	864.26	1/4	505.02	1/4	145.83	1/4		1/4		1/4	
1/2	2,293.43	1/2	1,934.17	1/2	1,574.91	1/2	1,215.65	1/2	856.78	1/2	497.53	1/2	138.37	1/2		1/2		1/2	
3/4	2,285.95	3/4	1,926.69	3/4	1,567.43	3/4	1,208.17	3/4	849.29	3/4	490.05	3/4	130.90	3/4		3/4		3/4	
4	2,278.46	4	1,919.20	4	1,559.94	4	1,200.68	4	841.81	4	482.56	4	123.44	4		4		4	
1/4	2,270.98	1/4	1,911.72	1/4	1,552.46	1/4	1,193.20	1/4	834.32	1/4	475.08	1/4	115.99	1/4		1/4		1/4	
1/2	2,263.50	1/2	1,904.23	1/2	1,544.97	1/2	1,185.71	1/2	826.84	1/2	467.59	1/2	108.54	1/2		1/2		1/2	
3/4	2,256.01	3/4	1,896.75	3/4	1,537.49	3/4	1,178.23	3/4	819.36	3/4	460.11	3/4	101.10	3/4		3/4		3/4	
5	2,248.53	5	1,889.27	5	1,530.00	5	1,170.74	5	811.87	5	452.63	5	93.65	5		5		5	
1/4	2,241.04	1/4	1,881.78	1/4	1,522.52	1/4	1,163.26	1/4	804.39	1/4	445.14	1/4	86.24	1/4		1/4		1/4	
1/2	2,233.56	1/2	1,874.30	1/2	1,515.04	1/2	1,155.77	1/2	796.90	1/2	437.66	1/2	78.82	1/2		1/2		1/2	
3/4	2,226.07	3/4	1,866.81	3/4	1,507.55	3/4	1,148.29	3/4	789.42	3/4	430.17	3/4	71.40	3/4		3/4		3/4	
6	2,218.59	6	1,859.33	6	1,500.07	6	1,140.81	6	781.93	6	422.69	6	63.99	6		6		6	
1/4	2,211.10	1/4	1,851.84	1/4	1,492.58	1/4	1,133.33	1/4	774.45	1/4	415.20	1/4	57.03	1/4		1/4		1/4	
1/2	2,203.62	1/2	1,844.36	1/2	1,485.10	1/2	1,125.85	1/2	766.97	1/2	407.72	1/2	50.08	1/2		1/2		1/2	
3/4	2,196.13	3/4	1,836.87	3/4	1,477.61	3/4	1,118.37	3/4	759.48	3/4	400.24	3/4	43.12	3/4		3/4		3/4	
7	2,188.65	7	1,829.39	7	1,470.13	7	1,110.89	7	752.00	7	392.75	7	36.17	7		7		7	
1/4	2,181.16	1/4	1,821.90	1/4	1,462.64	1/4	1,103.41	1/4	744.51	1/4	385.27	1/4	30.87	1/4		1/4		1/4	
1/2	2,173.68	1/2	1,814.42	1/2	1,455.16	1/2	1,095.94	1/2	737.03	1/2	377.78	1/2	25.57	1/2		1/2		1/2	
3/4	2,166.20	3/4	1,806.93	3/4	1,447.67	3/4	1,088.47	3/4	729.54	3/4	370.30	3/4	20.27	3/4		3/4		3/4	
8	2,158.71	8	1,799.45	8	1,440.19	8	1,081.00	8	722.06	8	362.81	8	14.97	8		8		8	
1/4	2,151.23	1/4	1,791.97	1/4	1,432.70	1/4	1,073.52	1/4	714.58	1/4	355.33	1/4		1/4		1/4		1/4	
1/2	2,143.74	1/2	1,784.48	1/2	1,425.22	1/2	1,066.05	1/2	707.09	1/2	347.84	1/2		1/2		1/2		1/2	
3/4	2,136.26	3/4	1,777.00	3/4	1,417.74	3/4	1,058.58	3/4	699.61	3/4	340.36	3/4		3/4		3/4		3/4	
9	2,128.77	9	1,769.51	9	1,410.25	9	1,051.11	9	692.12	9	332.88	9		9		9		9	
1/4	2,121.29	1/4	1,762.03	1/4	1,402.77	1/4	1,043.63	1/4	684.64	1/4	325.39	1/4		1/4		1/4		1/4	
1/2	2,113.80	1/2	1,754.54	1/2	1,395.28	1/2	1,036.16	1/2	677.15	1/2	317.91	1/2		1/2		1/2		1/2	
3/4	2,106.32	3/4	1,747.06	3/4	1,387.80	3/4	1,028.69	3/4	669.67	3/4	310.42	3/4		3/4		3/4		3/4	
10	2,098.83	10	1,739.57	10	1,380.31	10	1,021.22	10	662.19	10	302.94	10		10		10		10	
1/4	2,091.35	1/4	1,732.09	1/4	1,372.83	1/4	1,013.74	1/4	654.70	1/4	295.45	1/4		1/4		1/4		1/4	
1/2	2,083.87	1/2	1,724.60	1/2	1,365.34	1/2	1,006.27	1/2	647.22	1/2	287.97	1/2		1/2		1/2		1/2	
3/4	2,076.38	3/4	1,717.12	3/4	1,357.86	3/4	998.80	3/4	639.73	3/4	280.49	3/4		3/4		3/4		3/4	
11	2,068.90	11	1,709.64	11	1,350.37	11	991.33	11	632.25	11	273.00	11		11		11		11	
1/4	2,061.41	1/4	1,702.15	1/4	1,342.89	1/4	983.85	1/4	624.76	1/4	265.52	1/4		1/4		1/4		1/4	
1/2	2,053.93	1/2	1,694.67	1/2	1,335.41	1/2	976.38	1/2	617.28	1/2	258.03	1/2		1/2		1/2		1/2	
3/4	2,046.44	3/4	1,687.18	3/4	1,327.92	3/4	968.91	3/4	609.80	3/4	250.55	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "KIRBY 29116"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0	0	0	0	0	0	0	4,359.09	0	4,118.75	0	3,872.77	0	3,614.80	0	3,345.09	0	2,994.69	0	2,638.50
1/4		1/4		1/4		1/4	4,354.46	1/4	4,113.75	1/4	3,867.52	1/4	3,609.30	1/4	3,339.39	1/4	2,987.27	1/4	2,631.08
1/2		1/2		1/2		1/2	4,349.83	1/2	4,108.74	1/2	3,862.26	1/2	3,603.80	1/2	3,333.69	1/2	2,979.85	1/2	2,623.66
3/4		3/4		3/4		3/4	4,345.20	3/4	4,103.74	3/4	3,857.00	3/4	3,598.29	3/4	3,327.99	3/4	2,972.43	3/4	2,616.24
1	1	1	1	1	1	1	4,341.05	1	4,098.71	1	3,851.72	1	3,592.76	1	3,320.57	1	2,965.01	1	2,608.82
1/4		1/4		1/4		1/4	4,336.90	1/4	4,093.69	1/4	3,846.45	1/4	3,587.23	1/4	3,313.15	1/4	2,957.59	1/4	2,601.40
1/2		1/2		1/2		1/2	4,332.75	1/2	4,088.67	1/2	3,841.17	1/2	3,581.70	1/2	3,305.72	1/2	2,950.17	1/2	2,593.98
3/4		3/4		3/4		3/4	4,328.60	3/4	4,083.64	3/4	3,835.90	3/4	3,576.18	3/4	3,298.30	3/4	2,942.74	3/4	2,586.56
2	2	2	2	2	2	2	4,323.25	2	4,078.60	2	3,830.60	2	3,570.63	2	3,290.87	2	2,935.32	2	2,579.14
1/4		1/4		1/4		1/4	4,317.90	1/4	4,073.55	1/4	3,825.31	1/4	3,565.08	1/4	3,283.45	1/4	2,927.90	1/4	2,571.71
1/2		1/2		1/2		1/2	4,312.54	1/2	4,068.50	1/2	3,820.01	1/2	3,559.54	1/2	3,276.03	1/2	2,920.48	1/2	2,564.29
3/4		3/4		3/4		3/4	4,307.19	3/4	4,063.46	3/4	3,814.72	3/4	3,553.99	3/4	3,268.60	3/4	2,913.06	3/4	2,556.87
3	3	3	3	3	3	3	4,301.49	3	4,058.39	3	3,809.40	3	3,548.43	3	3,261.18	3	2,905.64	3	2,549.45
1/4		1/4		1/4		1/4	4,295.79	1/4	4,053.33	1/4	3,804.08	1/4	3,542.86	1/4	3,253.76	1/4	2,898.22	1/4	2,542.03
1/2		1/2		1/2		1/2	4,290.09	1/2	4,048.26	1/2	3,798.77	1/2	3,537.30	1/2	3,246.33	1/2	2,890.80	1/2	2,534.61
3/4		3/4		3/4		3/4	4,284.39	3/4	4,043.20	3/4	3,793.45	3/4	3,531.73	3/4	3,238.91	3/4	2,883.38	3/4	2,527.19
4	4	4	4	4	4	4	4,278.69	4	4,038.11	4	3,788.11	4	3,526.15	4	3,231.49	4	2,875.96	4	2,519.77
1/4		1/4		1/4		1/4	4,272.99	1/4	4,033.02	1/4	3,782.78	1/4	3,520.56	1/4	3,224.06	1/4	2,868.54	1/4	2,512.35
1/2		1/2		1/2		1/2	4,267.29	1/2	4,027.93	1/2	3,777.44	1/2	3,514.97	1/2	3,216.64	1/2	2,861.12	1/2	2,504.93
3/4		3/4		3/4		3/4	4,261.59	3/4	4,022.84	3/4	3,772.10	3/4	3,509.38	3/4	3,209.21	3/4	2,853.70	3/4	2,497.51
5	5	5	5	5	5	5	4,256.73	5	4,017.73	5	3,766.75	5	3,503.78	5	3,201.82	5	2,846.28	5	2,490.09
1/4		1/4		1/4		1/4	4,251.87	1/4	4,012.63	1/4	3,761.39	1/4	3,498.17	1/4	3,194.42	1/4	2,838.86	1/4	2,482.67
1/2		1/2		1/2		1/2	4,247.01	1/2	4,007.52	1/2	3,756.03	1/2	3,492.56	1/2	3,187.02	1/2	2,831.44	1/2	2,475.25
3/4		3/4		3/4		3/4	4,242.15	3/4	4,002.41	3/4	3,750.67	3/4	3,486.96	3/4	3,179.63	3/4	2,824.02	3/4	2,467.83
6	6	6	6	6	6	6	4,237.27	6	3,997.28	6	3,745.29	6	3,481.33	6	3,172.23	6	2,816.59	6	2,460.41
1/4		1/4		1/4		1/4	4,232.39	1/4	3,992.15	1/4	3,739.91	1/4	3,475.70	1/4	3,164.83	1/4	2,809.17	1/4	2,452.99
1/2		1/2		1/2		1/2	4,227.51	1/2	3,987.02	1/2	3,734.53	1/2	3,470.07	1/2	3,157.44	1/2	2,801.75	1/2	2,445.56
3/4		3/4		3/4		3/4	4,222.63	3/4	3,981.89	3/4	3,729.16	3/4	3,464.44	3/4	3,150.04	3/4	2,794.33	3/4	2,438.14
7	7	7	7	7	7	7	4,217.73	7	3,976.74	7	3,723.75	7	3,458.79	7	3,142.64	7	2,786.91	7	2,430.72
1/4		1/4		1/4		1/4	4,212.83	1/4	3,971.59	1/4	3,718.35	1/4	3,453.14	1/4	3,135.25	1/4	2,779.49	1/4	2,423.30
1/2		1/2		1/2		1/2	4,207.93	1/2	3,966.44	1/2	3,712.95	1/2	3,447.49	1/2	3,127.85	1/2	2,772.07	1/2	2,415.88
3/4		3/4		3/4		3/4	4,203.02	3/4	3,961.29	3/4	3,707.55	3/4	3,441.84	3/4	3,120.46	3/4	2,764.65	3/4	2,408.46
8	8	8	8	8	8	8	4,198.10	8	3,956.12	8	3,702.13	8	3,436.17	8	3,113.06	8	2,757.23	8	2,401.04
1/4		1/4		1/4		1/4	4,193.18	1/4	3,950.94	1/4	3,696.71	1/4	3,430.50	1/4	3,105.66	1/4	2,749.81	1/4	2,393.62
1/2		1/2		1/2		1/2	4,188.26	1/2	3,945.77	1/2	3,691.29	1/2	3,424.83	1/2	3,098.27	1/2	2,742.39	1/2	2,386.20
3/4		3/4		3/4		3/4	4,183.34	3/4	3,940.60	3/4	3,685.87	3/4	3,419.16	3/4	3,090.87	3/4	2,734.97	3/4	2,378.78
9	9	9	9	9	9	9	4,178.40	9	3,935.41	9	3,680.43	9	3,413.47	9	3,083.47	9	2,727.55	9	2,371.36
1/4		1/4		1/4		1/4	4,173.45	1/4	3,930.21	1/4	3,674.99	1/4	3,407.77	1/4	3,076.08	1/4	2,720.13	1/4	2,363.94
1/2		1/2		1/2		1/2	4,168.50	1/2	3,925.02	1/2	3,669.54	1/2	3,402.08	1/2	3,068.68	1/2	2,712.71	1/2	2,356.52
3/4		3/4		3/4		3/4	4,163.56	3/4	3,919.83	3/4	3,664.10	3/4	3,396.39	3/4	3,061.28	3/4	2,705.29	3/4	2,349.09
10	10	10	10	10	10	10	4,158.60	10	3,914.61	10	3,658.64	10	3,390.69	10	3,053.89	10	2,697.86	10	2,341.67
1/4		1/4		1/4		1/4	4,153.63	1/4	3,909.40	1/4	3,653.18	1/4	3,384.99	1/4	3,046.49	1/4	2,690.44	1/4	2,334.25
1/2		1/2		1/2		1/2	4,148.67	1/2	3,904.18	1/2	3,647.71	1/2	3,379.29	1/2	3,039.09	1/2	2,683.02	1/2	2,326.83
3/4		3/4		3/4		3/4	4,143.71	3/4	3,898.97	3/4	3,642.25	3/4	3,373.59	3/4	3,031.70	3/4	2,675.60	3/4	2,319.41
11	11	11	11	11	11	11	4,138.72	11	3,893.73	11	3,636.77	11	3,367.89	11	3,024.30	11	2,668.18	11	2,311.99
1/4		1/4		1/4		1/4	4,133.73	1/4	3,888.50	1/4	3,631.28	1/4	3,362.19	1/4	3,016.90	1/4	2,660.76	1/4	2,304.57
1/2		1/2		1/2		1/2	4,128.74	1/2	3,883.27	1/2	3,625.79	1/2	3,356.49	1/2	3,009.51	1/2	2,653.34	1/2	2,297.15
3/4		3/4		3/4		3/4	4,123.76	3/4	3,878.03	3/4	3,620.31	3/4	3,350.79	3/4	3,002.11	3/4	2,645.92	3/4	2,289.73

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD

PRECISION MEASUREMENT
& ANALYSIS, INC.

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



BARGE "KIRBY 29116"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

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	2,282.30	0	1,925.69	0	1,569.98	0	1,213.44	0	869.68	0	512.96	0	156.01	0		0		0	
1/4	2,274.88	1/4	1,918.25	1/4	1,562.57	1/4	1,206.27	1/4	862.26	1/4	505.53	1/4	148.57	1/4		1/4		1/4	
1/2	2,267.46	1/2	1,910.82	1/2	1,555.16	1/2	1,199.10	1/2	854.85	1/2	498.09	1/2	141.14	1/2		1/2		1/2	
3/4	2,260.04	3/4	1,903.38	3/4	1,547.75	3/4	1,191.94	3/4	847.43	3/4	490.65	3/4	133.70	3/4		3/4		3/4	
1	2,252.62	1	1,895.97	1	1,540.32	1	1,184.77	1	840.02	1	483.22	1	126.27	1		1		1	
1/4	2,245.20	1/4	1,888.56	1/4	1,532.88	1/4	1,177.60	1/4	832.60	1/4	475.78	1/4	118.83	1/4		1/4		1/4	
1/2	2,237.78	1/2	1,881.15	1/2	1,525.45	1/2	1,170.43	1/2	825.19	1/2	468.34	1/2	111.39	1/2		1/2		1/2	
3/4	2,230.36	3/4	1,873.75	3/4	1,518.01	3/4	1,163.27	3/4	817.77	3/4	460.91	3/4	103.96	3/4		3/4		3/4	
2	2,222.94	2	1,866.34	2	1,510.58	2	1,156.10	2	810.36	2	453.47	2	96.84	2		2		2	
1/4	2,215.51	1/4	1,858.93	1/4	1,503.14	1/4	1,148.93	1/4	802.94	1/4	446.03	1/4	89.72	1/4		1/4		1/4	
1/2	2,208.09	1/2	1,851.52	1/2	1,495.71	1/2	1,141.76	1/2	795.53	1/2	438.60	1/2	82.59	1/2		1/2		1/2	
3/4	2,200.67	3/4	1,844.11	3/4	1,488.27	3/4	1,134.60	3/4	788.11	3/4	431.16	3/4	75.47	3/4		3/4		3/4	
3	2,193.25	3	1,836.70	3	1,480.84	3	1,127.43	3	780.68	3	423.73	3	69.29	3		3		3	
1/4	2,185.83	1/4	1,829.29	1/4	1,473.40	1/4	1,120.26	1/4	773.24	1/4	416.29	1/4	63.11	1/4		1/4		1/4	
1/2	2,178.41	1/2	1,821.88	1/2	1,465.97	1/2	1,113.09	1/2	765.80	1/2	408.85	1/2	56.93	1/2		1/2		1/2	
3/4	2,170.99	3/4	1,814.47	3/4	1,458.53	3/4	1,105.93	3/4	758.37	3/4	401.42	3/4	50.75	3/4		3/4		3/4	
4	2,163.57	4	1,807.06	4	1,451.10	4	1,098.76	4	750.93	4	393.98	4	45.82	4		4		4	
1/4	2,156.15	1/4	1,799.66	1/4	1,443.66	1/4	1,091.59	1/4	743.49	1/4	386.54	1/4	40.90	1/4		1/4		1/4	
1/2	2,148.72	1/2	1,792.25	1/2	1,436.23	1/2	1,084.42	1/2	736.06	1/2	379.11	1/2	35.97	1/2		1/2		1/2	
3/4	2,141.30	3/4	1,784.84	3/4	1,428.79	3/4	1,077.26	3/4	728.62	3/4	371.67	3/4	31.04	3/4		3/4		3/4	
5	2,133.87	5	1,777.43	5	1,421.36	5	1,070.10	5	721.19	5	364.23	5	27.38	5		5		5	
1/4	2,126.43	1/4	1,770.02	1/4	1,413.92	1/4	1,062.95	1/4	713.75	1/4	356.80	1/4	23.72	1/4		1/4		1/4	
1/2	2,119.00	1/2	1,762.61	1/2	1,406.48	1/2	1,055.80	1/2	706.31	1/2	349.36	1/2	20.05	1/2		1/2		1/2	
3/4	2,111.56	3/4	1,755.20	3/4	1,399.05	3/4	1,048.64	3/4	698.88	3/4	341.92	3/4	16.39	3/4		3/4		3/4	
6	2,104.13	6	1,747.79	6	1,391.61	6	1,041.49	6	691.44	6	334.49	6		6		6		6	
1/4	2,096.69	1/4	1,740.38	1/4	1,384.18	1/4	1,034.34	1/4	684.00	1/4	327.05	1/4		1/4		1/4		1/4	
1/2	2,089.26	1/2	1,732.98	1/2	1,376.74	1/2	1,027.18	1/2	676.57	1/2	319.61	1/2		1/2		1/2		1/2	
3/4	2,081.82	3/4	1,725.57	3/4	1,369.31	3/4	1,020.03	3/4	669.13	3/4	312.18	3/4		3/4		3/4		3/4	
7	2,074.39	7	1,718.16	7	1,361.87	7	1,012.88	7	661.69	7	304.74	7		7		7		7	
1/4	2,066.95	1/4	1,710.75	1/4	1,354.44	1/4	1,005.73	1/4	654.26	1/4	297.30	1/4		1/4		1/4		1/4	
1/2	2,059.52	1/2	1,703.34	1/2	1,347.00	1/2	998.58	1/2	646.82	1/2	289.87	1/2		1/2		1/2		1/2	
3/4	2,052.08	3/4	1,695.93	3/4	1,339.57	3/4	991.43	3/4	639.38	3/4	282.43	3/4		3/4		3/4		3/4	
8	2,044.65	8	1,688.52	8	1,332.13	8	984.29	8	631.95	8	275.00	8		8		8		8	
1/4	2,037.21	1/4	1,681.11	1/4	1,324.70	1/4	977.14	1/4	624.51	1/4	267.56	1/4		1/4		1/4		1/4	
1/2	2,029.78	1/2	1,673.70	1/2	1,317.26	1/2	969.99	1/2	617.07	1/2	260.12	1/2		1/2		1/2		1/2	
3/4	2,022.34	3/4	1,666.30	3/4	1,309.83	3/4	962.85	3/4	609.64	3/4	252.69	3/4		3/4		3/4		3/4	
9	2,014.91	9	1,658.89	9	1,302.39	9	955.70	9	602.20	9	245.25	9		9		9		9	
1/4	2,007.47	1/4	1,651.48	1/4	1,294.96	1/4	948.56	1/4	594.76	1/4	237.81	1/4		1/4		1/4		1/4	
1/2	2,000.04	1/2	1,644.07	1/2	1,287.52	1/2	941.41	1/2	587.33	1/2	230.38	1/2		1/2		1/2		1/2	
3/4	1,992.60	3/4	1,636.66	3/4	1,280.09	3/4	934.26	3/4	579.89	3/4	222.94	3/4		3/4		3/4		3/4	
10	1,985.17	10	1,629.25	10	1,272.65	10	927.12	10	572.46	10	215.50	10		10		10		10	
1/4	1,977.73	1/4	1,621.84	1/4	1,265.22	1/4	919.97	1/4	565.02	1/4	208.07	1/4		1/4		1/4		1/4	
1/2	1,970.30	1/2	1,614.43	1/2	1,257.78	1/2	912.83	1/2	557.58	1/2	200.63	1/2		1/2		1/2		1/2	
3/4	1,962.86	3/4	1,607.02	3/4	1,250.35	3/4	905.68	3/4	550.15	3/4	193.19	3/4		3/4		3/4		3/4	
11	1,955.43	11	1,599.62	11	1,242.91	11	898.53	11	542.71	11	185.76	11		11		11		11	
1/4	1,947.99	1/4	1,592.21	1/4	1,235.48	1/4	891.39	1/4	535.27	1/4	178.32	1/4		1/4		1/4		1/4	
1/2	1,940.56	1/2	1,584.80	1/2	1,228.04	1/2	884.24	1/2	527.84	1/2	170.88	1/2		1/2		1/2		1/2	
3/4	1,933.12	3/4	1,577.39	3/4	1,220.60	3/4	877.10	3/4	520.40	3/4	163.45	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

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



BARGE "KIRBY 29116"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.
0		0		0		0		0	4,162.56	0	3,916.59	0	3,658.65	0	3,388.79	0	3,043.59	0	2,686.33
1/4		1/4		1/4		1/4		1/4	4,157.55	1/4	3,911.34	1/4	3,653.14	1/4	3,383.07	1/4	3,038.15	1/4	2,678.89
1/2		1/2		1/2		1/2		1/2	4,152.54	1/2	3,906.09	1/2	3,647.63	1/2	3,377.35	1/2	3,028.71	1/2	2,671.45
3/4		3/4		3/4		3/4		3/4	4,388.48	3/4	4,147.53	3/4	3,900.83	3/4	3,642.13	3/4	3,371.63	3/4	3,021.26
1		1		1		1		1	4,383.83	1	4,142.51	1	3,895.55	1	3,636.60	1	3,365.91	1	3,013.82
1/4		1/4		1/4		1/4		1/4	4,379.18	1/4	4,137.48	1/4	3,890.28	1/4	3,631.08	1/4	3,360.19	1/4	3,006.38
1/2		1/2		1/2		1/2		1/2	4,374.53	1/2	4,132.46	1/2	3,885.00	1/2	3,625.55	1/2	3,354.47	1/2	2,998.93
3/4		3/4		3/4		3/4		3/4	4,369.88	3/4	4,127.43	3/4	3,879.72	3/4	3,620.03	3/4	3,348.75	3/4	2,991.49
2		2		2		2		2	4,365.71	2	4,122.39	2	3,874.42	2	3,614.48	2	3,341.31	2	2,984.05
1/4		1/4		1/4		1/4		1/4	4,361.54	1/4	4,117.35	1/4	3,869.13	1/4	3,608.93	1/4	3,333.86	1/4	2,976.60
1/2		1/2		1/2		1/2		1/2	4,357.37	1/2	4,112.30	1/2	3,863.83	1/2	3,603.38	1/2	3,326.42	1/2	2,969.16
3/4		3/4		3/4		3/4		3/4	4,353.20	3/4	4,107.26	3/4	3,858.53	3/4	3,597.83	3/4	3,318.98	3/4	2,961.72
3		3		3		3		3	4,347.82	3	4,102.19	3	3,853.22	3	3,592.26	3	3,311.54	3	2,954.28
1/4		1/4		1/4		1/4		1/4	4,342.45	1/4	4,097.12	1/4	3,847.91	1/4	3,586.70	1/4	3,304.09	1/4	2,946.83
1/2		1/2		1/2		1/2		1/2	4,337.08	1/2	4,092.06	1/2	3,842.59	1/2	3,581.13	1/2	3,296.65	1/2	2,939.39
3/4		3/4		3/4		3/4		3/4	4,331.71	3/4	4,086.99	3/4	3,837.28	3/4	3,575.57	3/4	3,289.21	3/4	2,931.95
4		4		4		4		4	4,325.99	4	4,081.90	4	3,831.94	4	3,569.98	4	3,281.76	4	2,924.50
1/4		1/4		1/4		1/4		1/4	4,320.27	1/4	4,076.82	1/4	3,826.60	1/4	3,564.40	1/4	3,274.32	1/4	2,917.06
1/2		1/2		1/2		1/2		1/2	4,314.55	1/2	4,071.73	1/2	3,821.26	1/2	3,558.81	1/2	3,266.88	1/2	2,909.62
3/4		3/4		3/4		3/4		3/4	4,308.83	3/4	4,066.65	3/4	3,815.93	3/4	3,553.23	3/4	3,259.44	3/4	2,902.18
5		5		5		5		5	4,303.11	5	4,061.54	5	3,810.57	5	3,547.62	5	3,251.99	5	2,894.73
1/4		1/4		1/4		1/4		1/4	4,297.38	1/4	4,056.43	1/4	3,805.21	1/4	3,542.01	1/4	3,244.55	1/4	2,887.29
1/2		1/2		1/2		1/2		1/2	4,291.66	1/2	4,051.32	1/2	3,799.86	1/2	3,536.40	1/2	3,237.11	1/2	2,879.85
3/4		3/4		3/4		3/4		3/4	4,285.94	3/4	4,046.21	3/4	3,794.50	3/4	3,530.79	3/4	3,229.66	3/4	2,872.40
6		6		6		6		6	4,281.06	6	4,041.08	6	3,789.12	6	3,525.17	6	3,222.22	6	2,864.96
1/4		1/4		1/4		1/4		1/4	4,276.18	1/4	4,035.96	1/4	3,783.74	1/4	3,519.54	1/4	3,214.78	1/4	2,857.52
1/2		1/2		1/2		1/2		1/2	4,271.30	1/2	4,030.83	1/2	3,778.36	1/2	3,513.91	1/2	3,207.33	1/2	2,850.08
3/4		3/4		3/4		3/4		3/4	4,266.42	3/4	4,025.70	3/4	3,772.98	3/4	3,508.28	3/4	3,199.89	3/4	2,842.63
7		7		7		7		7	4,261.52	7	4,020.55	7	3,767.58	7	3,502.63	7	3,192.45	7	2,835.19
1/4		1/4		1/4		1/4		1/4	4,256.62	1/4	4,015.40	1/4	3,762.18	1/4	3,496.98	1/4	3,185.01	1/4	2,827.75
1/2		1/2		1/2		1/2		1/2	4,251.72	1/2	4,010.25	1/2	3,756.79	1/2	3,491.33	1/2	3,177.56	1/2	2,820.30
3/4		3/4		3/4		3/4		3/4	4,246.82	3/4	4,005.10	3/4	3,751.39	3/4	3,485.68	3/4	3,170.12	3/4	2,812.86
8		8		8		8		8	4,241.90	8	3,999.93	8	3,745.97	8	3,480.01	8	3,162.68	8	2,805.42
1/4		1/4		1/4		1/4		1/4	4,236.98	1/4	3,994.76	1/4	3,740.54	1/4	3,474.34	1/4	3,155.23	1/4	2,797.98
1/2		1/2		1/2		1/2		1/2	4,232.05	1/2	3,989.59	1/2	3,735.12	1/2	3,468.68	1/2	3,147.79	1/2	2,790.53
3/4		3/4		3/4		3/4		3/4	4,227.13	3/4	3,984.42	3/4	3,729.70	3/4	3,463.01	3/4	3,140.35	3/4	2,783.09
9		9		9		9		9	4,222.19	9	3,979.22	9	3,724.26	9	3,457.31	9	3,132.91	9	2,775.65
1/4		1/4		1/4		1/4		1/4	4,217.25	1/4	3,974.03	1/4	3,718.82	1/4	3,451.62	1/4	3,125.46	1/4	2,768.20
1/2		1/2		1/2		1/2		1/2	4,212.31	1/2	3,968.84	1/2	3,713.38	1/2	3,445.93	1/2	3,118.02	1/2	2,760.76
3/4		3/4		3/4		3/4		3/4	4,207.37	3/4	3,963.64	3/4	3,707.94	3/4	3,440.24	3/4	3,110.58	3/4	2,753.32
10		10		10		10		10	4,202.40	10	3,958.43	10	3,702.48	10	3,434.53	10	3,103.13	10	2,745.88
1/4		1/4		1/4		1/4		1/4	4,197.43	1/4	3,953.22	1/4	3,697.01	1/4	3,428.82	1/4	3,095.69	1/4	2,738.43
1/2		1/2		1/2		1/2		1/2	4,192.47	1/2	3,948.01	1/2	3,691.55	1/2	3,423.10	1/2	3,088.25	1/2	2,730.99
3/4		3/4		3/4		3/4		3/4	4,187.50	3/4	3,942.79	3/4	3,686.08	3/4	3,417.39	3/4	3,080.81	3/4	2,723.55
11		11		11		11		11	4,182.52	11	3,937.56	11	3,680.60	11	3,411.67	11	3,073.36	11	2,716.10
1/4		1/4		1/4		1/4		1/4	4,177.54	1/4	3,932.32	1/4	3,675.12	1/4	3,405.95	1/4	3,065.92	1/4	2,708.66
1/2		1/2		1/2		1/2		1/2	4,172.55	1/2	3,927.09	1/2	3,669.64	1/2	3,400.23	1/2	3,058.48	1/2	2,701.22
3/4		3/4		3/4		3/4		3/4	4,167.57	3/4	3,921.85	3/4	3,664.15	3/4	3,394.51	3/4	3,051.03	3/4	2,693.77

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE
 GAUGE POINT: (HERMETIC) LOCATED 12'-09" OFF CENTERLINE AND 51'-09" FORWARD OF AFT BULKHEAD

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



BARGE "KIRBY 29116"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 3/4"

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	2,329.07	0	1,971.81	0	1,614.55	0	1,257.30	0	900.24	0	543.17	0	185.92	0		0		0	
1/4	2,321.63	1/4	1,964.37	1/4	1,607.11	1/4	1,249.85	1/4	892.81	1/4	535.73	1/4	178.48	1/4		1/4		1/4	
1/2	2,314.19	1/2	1,956.93	1/2	1,599.67	1/2	1,242.41	1/2	885.38	1/2	528.29	1/2	171.04	1/2		1/2		1/2	
3/4	2,306.74	3/4	1,949.48	3/4	1,592.23	3/4	1,234.97	3/4	877.95	3/4	520.85	3/4	163.60	3/4		3/4		3/4	
1	2,299.30	1	1,942.04	1	1,584.78	1	1,227.52	1	870.52	1	513.40	1	156.15	1		1		1	
1/4	2,291.86	1/4	1,934.60	1/4	1,577.34	1/4	1,220.08	1/4	863.09	1/4	505.96	1/4	148.71	1/4		1/4		1/4	
1/2	2,284.42	1/2	1,927.16	1/2	1,569.90	1/2	1,212.64	1/2	855.66	1/2	498.52	1/2	141.27	1/2		1/2		1/2	
3/4	2,276.97	3/4	1,919.71	3/4	1,562.45	3/4	1,205.19	3/4	848.23	3/4	491.07	3/4	133.83	3/4		3/4		3/4	
2	2,269.53	2	1,912.27	2	1,555.01	2	1,197.75	2	840.80	2	483.63	2	126.38	2		2		2	
1/4	2,262.09	1/4	1,904.83	1/4	1,547.57	1/4	1,190.31	1/4	833.37	1/4	476.19	1/4	118.94	1/4		1/4		1/4	
1/2	2,254.64	1/2	1,897.38	1/2	1,540.13	1/2	1,182.87	1/2	825.94	1/2	468.75	1/2	111.50	1/2		1/2		1/2	
3/4	2,247.20	3/4	1,889.94	3/4	1,532.68	3/4	1,175.42	3/4	818.51	3/4	461.30	3/4	104.06	3/4		3/4		3/4	
3	2,239.76	3	1,882.50	3	1,525.24	3	1,167.98	3	811.07	3	453.86	3	96.93	3		3		3	
1/4	2,232.31	1/4	1,875.06	1/4	1,517.80	1/4	1,160.54	1/4	803.64	1/4	446.42	1/4	89.80	1/4		1/4		1/4	
1/2	2,224.87	1/2	1,867.61	1/2	1,510.35	1/2	1,153.09	1/2	796.21	1/2	438.98	1/2	82.67	1/2		1/2		1/2	
3/4	2,217.43	3/4	1,860.17	3/4	1,502.91	3/4	1,145.65	3/4	788.78	3/4	431.53	3/4	75.55	3/4		3/4		3/4	
4	2,209.99	4	1,852.73	4	1,495.47	4	1,138.21	4	781.34	4	424.09	4	69.36	4		4		4	
1/4	2,202.54	1/4	1,845.28	1/4	1,488.02	1/4	1,130.77	1/4	773.90	1/4	416.65	1/4	63.17	1/4		1/4		1/4	
1/2	2,195.10	1/2	1,837.84	1/2	1,480.58	1/2	1,123.32	1/2	766.45	1/2	409.21	1/2	56.98	1/2		1/2		1/2	
3/4	2,187.66	3/4	1,830.40	3/4	1,473.14	3/4	1,115.88	3/4	759.01	3/4	401.76	3/4	50.79	3/4		3/4		3/4	
5	2,180.21	5	1,822.96	5	1,465.70	5	1,108.44	5	751.57	5	394.32	5	45.86	5		5		5	
1/4	2,172.77	1/4	1,815.51	1/4	1,458.25	1/4	1,100.99	1/4	744.13	1/4	386.88	1/4	40.92	1/4		1/4		1/4	
1/2	2,165.33	1/2	1,808.07	1/2	1,450.81	1/2	1,093.55	1/2	736.68	1/2	379.43	1/2	35.99	1/2		1/2		1/2	
3/4	2,157.89	3/4	1,800.63	3/4	1,443.37	3/4	1,086.11	3/4	729.24	3/4	371.99	3/4	31.06	3/4		3/4		3/4	
6	2,150.44	6	1,793.18	6	1,435.92	6	1,078.67	6	721.80	6	364.55	6	27.39	6		6		6	
1/4	2,143.00	1/4	1,785.74	1/4	1,428.48	1/4	1,071.22	1/4	714.36	1/4	357.11	1/4	23.72	1/4		1/4		1/4	
1/2	2,135.56	1/2	1,778.30	1/2	1,421.04	1/2	1,063.78	1/2	706.91	1/2	349.66	1/2	20.05	1/2		1/2		1/2	
3/4	2,128.11	3/4	1,770.86	3/4	1,413.60	3/4	1,056.34	3/4	699.47	3/4	342.22	3/4	16.38	3/4		3/4		3/4	
7	2,120.67	7	1,763.41	7	1,406.15	7	1,048.89	7	692.03	7	334.78	7		7		7		7	
1/4	2,113.23	1/4	1,755.97	1/4	1,398.71	1/4	1,041.45	1/4	684.58	1/4	327.34	1/4		1/4		1/4		1/4	
1/2	2,105.79	1/2	1,748.53	1/2	1,391.27	1/2	1,034.01	1/2	677.14	1/2	319.89	1/2		1/2		1/2		1/2	
3/4	2,098.34	3/4	1,741.08	3/4	1,383.82	3/4	1,026.57	3/4	669.70	3/4	312.45	3/4		3/4		3/4		3/4	
8	2,090.90	8	1,733.64	8	1,376.38	8	1,019.13	8	662.26	8	305.01	8		8		8		8	
1/4	2,083.46	1/4	1,726.20	1/4	1,368.94	1/4	1,011.70	1/4	654.81	1/4	297.56	1/4		1/4		1/4		1/4	
1/2	2,076.01	1/2	1,718.75	1/2	1,361.50	1/2	1,004.27	1/2	647.37	1/2	290.12	1/2		1/2		1/2		1/2	
3/4	2,068.57	3/4	1,711.31	3/4	1,354.05	3/4	996.84	3/4	639.93	3/4	282.68	3/4		3/4		3/4		3/4	
9	2,061.13	9	1,703.87	9	1,346.61	9	989.41	9	632.49	9	275.24	9		9		9		9	
1/4	2,053.69	1/4	1,696.43	1/4	1,339.17	1/4	981.98	1/4	625.04	1/4	267.79	1/4		1/4		1/4		1/4	
1/2	2,046.24	1/2	1,688.98	1/2	1,331.72	1/2	974.55	1/2	617.60	1/2	260.35	1/2		1/2		1/2		1/2	
3/4	2,038.80	3/4	1,681.54	3/4	1,324.28	3/4	967.12	3/4	610.16	3/4	252.91	3/4		3/4		3/4		3/4	
10	2,031.36	10	1,674.10	10	1,316.84	10	959.69	10	602.72	10	245.47	10		10		10		10	
1/4	2,023.91	1/4	1,666.65	1/4	1,309.40	1/4	952.26	1/4	595.27	1/4	238.02	1/4		1/4		1/4		1/4	
1/2	2,016.47	1/2	1,659.21	1/2	1,301.95	1/2	944.83	1/2	587.83	1/2	230.58	1/2		1/2		1/2		1/2	
3/4	2,009.03	3/4	1,651.77	3/4	1,294.51	3/4	937.40	3/4	580.39	3/4	223.14	3/4		3/4		3/4		3/4	
11	2,001.59	11	1,644.33	11	1,287.07	11	929.97	11	572.94	11	215.69	11		11		11		11	
1/4	1,994.14	1/4	1,636.88	1/4	1,279.62	1/4	922.54	1/4	565.50	1/4	208.25	1/4		1/4		1/4		1/4	
1/2	1,986.70	1/2	1,629.44	1/2	1,272.18	1/2	915.10	1/2	558.06	1/2	200.81	1/2		1/2		1/2		1/2	
3/4	1,979.26	3/4	1,622.00	3/4	1,264.74	3/4	907.67	3/4	550.62	3/4	193.37	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2014 CL
CALCULATED: 09/09/2014 CL
PRINTED: 09/09/2014 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2014

PRECISION MEASUREMENT
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