



BARGE "KIRBY 28179"

ULLAGE TRIM TABLE

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

November 22, 2011

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28179"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,955.69	0	4,621.44	0	4,281.74	0	3,925.53	0	3,553.43	0	3,176.73	0	2,798.51
1/4		1/4		1/4		1/4	4,950.30	1/4	4,614.55	1/4	4,274.49	1/4	3,917.94	1/4	3,545.59	1/4	3,168.85	1/4	2,790.63
1/2		1/2		1/2		1/2	4,943.62	1/2	4,607.62	1/2	4,267.22	1/2	3,910.32	1/2	3,537.74	1/2	3,160.97	1/2	2,782.75
3/4		3/4		3/4		3/4	4,936.94	3/4	4,600.70	3/4	4,259.95	3/4	3,902.70	3/4	3,529.90	3/4	3,153.09	3/4	2,774.87
1		1		1		1	4,930.26	1	4,593.77	1	4,252.68	1	3,895.09	1	3,522.05	1	3,145.21	1	2,766.99
1/4		1/4		1/4		1/4	4,923.58	1/4	4,586.85	1/4	4,245.42	1/4	3,887.47	1/4	3,514.21	1/4	3,137.33	1/4	2,759.12
1/2		1/2		1/2		1/2	4,915.97	1/2	4,579.90	1/2	4,238.12	1/2	3,879.83	1/2	3,506.36	1/2	3,129.45	1/2	2,751.24
3/4		3/4		3/4		3/4	4,908.35	3/4	4,572.94	3/4	4,230.82	3/4	3,872.18	3/4	3,498.52	3/4	3,121.57	3/4	2,743.36
2		2		2		2	4,900.74	2	4,565.99	2	4,223.52	2	3,864.54	2	3,490.67	2	3,113.69	2	2,735.48
1/4		1/4		1/4		1/4	4,893.12	1/4	4,559.03	1/4	4,216.23	1/4	3,856.90	1/4	3,482.83	1/4	3,105.81	1/4	2,727.60
1/2		1/2		1/2		1/2	4,885.28	1/2	4,552.05	1/2	4,208.90	1/2	3,849.23	1/2	3,474.99	1/2	3,097.93	1/2	2,719.72
3/4		3/4		3/4		3/4	4,877.43	3/4	4,545.07	3/4	4,201.57	3/4	3,841.56	3/4	3,467.14	3/4	3,090.05	3/4	2,711.84
3		3		3		3	4,869.59	3	4,538.09	3	4,194.24	3	3,833.89	3	3,459.30	3	3,082.17	3	2,703.96
1/4		1/4		1/4		1/4	4,861.74	1/4	4,531.10	1/4	4,186.92	1/4	3,826.22	1/4	3,451.45	1/4	3,074.30	1/4	2,696.08
1/2		1/2		1/2		1/2	4,854.33	1/2	4,524.09	1/2	4,179.56	1/2	3,818.52	1/2	3,443.61	1/2	3,066.42	1/2	2,688.20
3/4		3/4		3/4		3/4	4,846.92	3/4	4,517.08	3/4	4,172.21	3/4	3,810.82	3/4	3,435.76	3/4	3,058.54	3/4	2,680.32
4		4		4		4	4,839.51	4	4,510.07	4	4,164.85	4	3,803.12	4	3,427.92	4	3,050.66	4	2,672.44
1/4		1/4		1/4		1/4	4,832.10	1/4	4,503.06	1/4	4,157.50	1/4	3,795.42	1/4	3,420.07	1/4	3,042.78	1/4	2,664.56
1/2		1/2		1/2		1/2	4,825.40	1/2	4,496.02	1/2	4,150.11	1/2	3,787.69	1/2	3,412.23	1/2	3,034.90	1/2	2,656.68
3/4		3/4		3/4		3/4	4,818.71	3/4	4,488.97	3/4	4,142.73	3/4	3,779.96	3/4	3,404.38	3/4	3,027.02	3/4	2,648.80
5		5		5		5	4,812.01	5	4,481.93	5	4,135.34	5	3,772.23	5	3,396.54	5	3,019.14	5	2,640.92
1/4		1/4		1/4		1/4	4,805.31	1/4	4,474.89	1/4	4,127.96	1/4	3,764.51	1/4	3,388.70	1/4	3,011.26	1/4	2,633.04
1/2		1/2		1/2		1/2	4,798.59	1/2	4,467.82	1/2	4,120.54	1/2	3,756.75	1/2	3,380.85	1/2	3,003.38	1/2	2,625.16
3/4		3/4		3/4		3/4	4,791.86	3/4	4,460.75	3/4	4,113.13	3/4	3,748.99	3/4	3,373.01	3/4	2,995.50	3/4	2,617.28
6		6		6		6	4,785.13	6	4,453.68	6	4,105.72	6	3,741.23	6	3,365.16	6	2,987.62	6	2,609.40
1/4		1/4		1/4		1/4	4,778.41	1/4	4,446.61	1/4	4,098.31	1/4	3,733.48	1/4	3,357.32	1/4	2,979.74	1/4	2,601.53
1/2		1/2		1/2		1/2	4,771.65	1/2	4,439.52	1/2	4,090.86	1/2	3,725.69	1/2	3,349.47	1/2	2,971.86	1/2	2,593.65
3/4		3/4		3/4		3/4	4,764.90	3/4	4,432.42	3/4	4,083.42	3/4	3,717.90	3/4	3,341.63	3/4	2,963.98	3/4	2,585.77
7		7		7		7	4,758.14	7	4,425.32	7	4,075.98	7	3,710.12	7	3,333.78	7	2,956.10	7	2,577.89
1/4		1/4		1/4		1/4	4,751.38	1/4	4,418.22	1/4	4,068.53	1/4	3,702.33	1/4	3,325.94	1/4	2,948.22	1/4	2,570.01
1/2		1/2		1/2		1/2	4,744.60	1/2	4,411.09	1/2	4,061.06	1/2	3,694.52	1/2	3,318.09	1/2	2,940.34	1/2	2,562.13
3/4		3/4		3/4		3/4	4,737.82	3/4	4,403.96	3/4	4,053.59	3/4	3,686.70	3/4	3,310.25	3/4	2,932.46	3/4	2,554.25
8		8		8		8	4,731.03	8	4,396.84	8	4,046.12	8	3,678.89	8	3,302.40	8	2,924.58	8	2,546.37
1/4		1/4		1/4		1/4	4,724.25	1/4	4,389.71	1/4	4,038.65	1/4	3,671.07	1/4	3,294.56	1/4	2,916.71	1/4	2,538.49
1/2		1/2		1/2		1/2	4,717.43	1/2	4,382.55	1/2	4,031.15	1/2	3,663.23	1/2	3,286.72	1/2	2,908.83	1/2	2,530.61
3/4		3/4		3/4		3/4	4,710.62	3/4	4,375.39	3/4	4,023.65	3/4	3,655.40	3/4	3,278.87	3/4	2,900.95	3/4	2,522.73
9		9		9		9	4,703.81	9	4,368.24	9	4,016.15	9	3,647.56	9	3,271.03	9	2,893.07	9	2,514.85
1/4		1/4		1/4		1/4	4,696.99	1/4	4,361.08	1/4	4,008.65	1/4	3,639.72	1/4	3,263.18	1/4	2,885.19	1/4	2,506.97
1/2		1/2		1/2		1/2	4,690.15	1/2	4,353.89	1/2	4,001.12	1/2	3,631.88	1/2	3,255.34	1/2	2,877.31	1/2	2,499.09
3/4		3/4		3/4		3/4	4,683.31	3/4	4,346.71	3/4	3,993.59	3/4	3,624.03	3/4	3,247.49	3/4	2,869.43	3/4	2,491.21
10		10		10		10	4,676.47	10	4,339.52	10	3,986.06	10	3,616.19	10	3,239.65	10	2,861.55	10	2,483.33
1/4		1/4		1/4		1/4	4,669.62	1/4	4,332.33	1/4	3,978.53	1/4	3,608.34	1/4	3,231.80	1/4	2,853.67	1/4	2,475.45
1/2		1/2		1/2		1/2	4,662.75	1/2	4,325.12	1/2	3,970.97	1/2	3,600.50	1/2	3,223.94	1/2	2,845.79	1/2	2,467.57
3/4		3/4		3/4		3/4	4,655.88	3/4	4,317.90	3/4	3,963.41	3/4	3,592.65	3/4	3,216.09	3/4	2,837.91	3/4	2,459.69
11		11		11		11	4,649.01	11	4,310.69	11	3,955.85	11	3,584.81	11	3,208.23	11	2,830.03	11	2,451.81
1/4		1/4		1/4		1/4	4,642.13	1/4	4,303.47	1/4	3,948.29	1/4	3,576.97	1/4	3,200.37	1/4	2,822.15	1/4	2,443.94
1/2		1/2		1/2		1/2	4,635.24	1/2	4,296.23	1/2	3,940.70	1/2	3,569.12	1/2	3,192.49	1/2	2,814.27	1/2	2,436.06
3/4		3/4		3/4		3/4	4,961.07	3/4	4,628.34	3/4	4,288.98	3/4	3,933.11	3/4	3,561.28	3/4	3,184.61	3/4	2,428.18

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28179"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,420.30	0	2,042.08	0	1,663.86	0	1,287.04	0	909.60	0	531.42	0	182.92	0		0		0	
1/4	2,412.42	1/4	2,034.20	1/4	1,655.99	1/4	1,279.21	1/4	901.72	1/4	523.55	1/4	176.28	1/4	1/4	1/4		1/4	
1/2	2,404.54	1/2	2,026.32	1/2	1,648.11	1/2	1,271.38	1/2	893.84	1/2	515.73	1/2	169.76	1/2	1/2	1/2		1/2	
3/4	2,396.66	3/4	2,018.44	3/4	1,640.23	3/4	1,263.55	3/4	885.96	3/4	507.91	3/4	163.24	3/4	3/4	3/4		3/4	
1	2,388.78	1	2,010.56	1	1,632.35	1	1,255.72	1	878.08	1	500.09	1	156.72	1	1	1		1	
1/4	2,380.90	1/4	2,002.68	1/4	1,624.47	1/4	1,247.89	1/4	870.20	1/4	492.27	1/4	150.20	1/4	1/4	1/4		1/4	
1/2	2,373.02	1/2	1,994.80	1/2	1,616.59	1/2	1,240.06	1/2	862.32	1/2	484.54	1/2	143.79	1/2	1/2	1/2		1/2	
3/4	2,365.14	3/4	1,986.92	3/4	1,608.71	3/4	1,232.23	3/4	854.44	3/4	476.81	3/4	137.38	3/4	3/4	3/4		3/4	
2	2,357.26	2	1,979.04	2	1,600.83	2	1,224.40	2	846.56	2	469.08	2	130.98	2	2	2		2	
1/4	2,349.38	1/4	1,971.17	1/4	1,592.95	1/4	1,216.57	1/4	838.68	1/4	461.35	1/4	124.57	1/4	1/4	1/4		1/4	
1/2	2,341.50	1/2	1,963.29	1/2	1,585.07	1/2	1,208.74	1/2	830.80	1/2	453.73	1/2	118.28	1/2	1/2	1/2		1/2	
3/4	2,333.62	3/4	1,955.41	3/4	1,577.19	3/4	1,200.91	3/4	822.92	3/4	446.11	3/4	112.00	3/4	3/4	3/4		3/4	
3	2,325.74	3	1,947.53	3	1,569.31	3	1,193.08	3	815.04	3	438.49	3	105.71	3	3	3		3	
1/4	2,317.86	1/4	1,939.65	1/4	1,561.43	1/4	1,185.25	1/4	807.16	1/4	430.87	1/4	99.43	1/4	1/4	1/4		1/4	
1/2	2,309.98	1/2	1,931.77	1/2	1,553.56	1/2	1,177.40	1/2	799.29	1/2	423.36	1/2	93.27	1/2	1/2	1/2		1/2	
3/4	2,302.10	3/4	1,923.89	3/4	1,545.69	3/4	1,169.55	3/4	791.41	3/4	415.85	3/4	87.12	3/4	3/4	3/4		3/4	
4	2,294.22	4	1,916.01	4	1,537.83	4	1,161.70	4	783.53	4	408.34	4	80.96	4	4	4		4	
1/4	2,286.35	1/4	1,908.13	1/4	1,529.96	1/4	1,153.85	1/4	775.65	1/4	400.83	1/4	74.81	1/4	1/4	1/4		1/4	
1/2	2,278.47	1/2	1,900.25	1/2	1,522.11	1/2	1,145.97	1/2	767.77	1/2	393.43	1/2	68.79	1/2	1/2	1/2		1/2	
3/4	2,270.59	3/4	1,892.37	3/4	1,514.26	3/4	1,138.10	3/4	759.89	3/4	386.03	3/4	62.78	3/4	3/4	3/4		3/4	
5	2,262.71	5	1,884.49	5	1,506.41	5	1,130.22	5	752.01	5	378.63	5	56.76	5	5	5		5	
1/4	2,254.83	1/4	1,876.61	1/4	1,498.56	1/4	1,122.34	1/4	744.13	1/4	371.23	1/4	50.75	1/4	1/4	1/4		1/4	
1/2	2,246.95	1/2	1,868.73	1/2	1,490.71	1/2	1,114.46	1/2	736.25	1/2	363.94	1/2	45.33	1/2	1/2	1/2		1/2	
3/4	2,239.07	3/4	1,860.85	3/4	1,482.87	3/4	1,106.58	3/4	728.37	3/4	356.65	3/4	39.91	3/4	3/4	3/4		3/4	
6	2,231.19	6	1,852.97	6	1,475.02	6	1,098.70	6	720.49	6	349.36	6	34.49	6	6	6		6	
1/4	2,223.31	1/4	1,845.09	1/4	1,467.18	1/4	1,090.82	1/4	712.61	1/4	342.07	1/4	29.06	1/4	1/4	1/4		1/4	
1/2	2,215.43	1/2	1,837.21	1/2	1,459.34	1/2	1,082.94	1/2	704.73	1/2	334.89	1/2	25.10	1/2	1/2	1/2		1/2	
3/4	2,207.55	3/4	1,829.33	3/4	1,451.50	3/4	1,075.06	3/4	696.85	3/4	327.71	3/4	21.13	3/4	3/4	3/4		3/4	
7	2,199.67	7	1,821.45	7	1,443.66	7	1,067.18	7	688.98	7	320.53	7	17.16	7	7	7		7	
1/4	2,191.79	1/4	1,813.58	1/4	1,435.83	1/4	1,059.30	1/4	681.10	1/4	313.34	1/4	13.20	1/4	1/4	1/4		1/4	
1/2	2,183.91	1/2	1,805.70	1/2	1,427.99	1/2	1,051.42	1/2	673.22	1/2	306.27	1/2		1/2	1/2	1/2		1/2	
3/4	2,176.03	3/4	1,797.82	3/4	1,420.16	3/4	1,043.54	3/4	665.34	3/4	299.20	3/4		3/4	3/4	3/4		3/4	
8	2,168.15	8	1,789.94	8	1,412.32	8	1,035.66	8	657.46	8	292.13	8		8	8	8		8	
1/4	2,160.27	1/4	1,782.06	1/4	1,404.49	1/4	1,027.79	1/4	649.58	1/4	285.06	1/4		1/4	1/4	1/4		1/4	
1/2	2,152.39	1/2	1,774.18	1/2	1,396.66	1/2	1,019.91	1/2	641.70	1/2	278.09	1/2		1/2	1/2	1/2		1/2	
3/4	2,144.51	3/4	1,766.30	3/4	1,388.83	3/4	1,012.03	3/4	633.82	3/4	271.13	3/4		3/4	3/4	3/4		3/4	
9	2,136.63	9	1,758.42	9	1,381.00	9	1,004.15	9	625.94	9	264.17	9		9	9	9		9	
1/4	2,128.76	1/4	1,750.54	1/4	1,373.17	1/4	996.27	1/4	618.06	1/4	257.21	1/4		1/4	1/4	1/4		1/4	
1/2	2,120.88	1/2	1,742.66	1/2	1,365.34	1/2	988.39	1/2	610.18	1/2	250.35	1/2		1/2	1/2	1/2		1/2	
3/4	2,113.00	3/4	1,734.78	3/4	1,357.51	3/4	980.51	3/4	602.30	3/4	243.50	3/4		3/4	3/4	3/4		3/4	
10	2,105.12	10	1,726.90	10	1,349.68	10	972.63	10	594.42	10	236.65	10		10	10	10		10	
1/4	2,097.24	1/4	1,719.02	1/4	1,341.85	1/4	964.75	1/4	586.54	1/4	229.79	1/4		1/4	1/4	1/4		1/4	
1/2	2,089.36	1/2	1,711.14	1/2	1,334.02	1/2	956.87	1/2	578.67	1/2	223.05	1/2		1/2	1/2	1/2		1/2	
3/4	2,081.48	3/4	1,703.26	3/4	1,326.19	3/4	948.99	3/4	570.79	3/4	216.31	3/4		3/4	3/4	3/4		3/4	
11	2,073.60	11	1,695.38	11	1,318.36	11	941.11	11	562.91	11	209.56	11		11	11	11		11	
1/4	2,065.72	1/4	1,687.50	1/4	1,310.53	1/4	933.23	1/4	555.03	1/4	202.82	1/4		1/4	1/4	1/4		1/4	
1/2	2,057.84	1/2	1,679.62	1/2	1,302.70	1/2	925.35	1/2	547.16	1/2	196.19	1/2		1/2	1/2	1/2		1/2	
3/4	2,049.96	3/4	1,671.74	3/4	1,294.87	3/4	917.47	3/4	539.29	3/4	189.55	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28179"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,961.71		4,629.06		4,289.78		3,933.99		3,562.24		3,185.66		2,807.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,956.33	1/4	4,622.17	1/4	4,282.54	1/4	3,926.41	1/4	3,554.40	1/4	3,177.78	1/4	2,799.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,950.95	1/2	4,615.27	1/2	4,275.29	1/2	3,918.82	1/2	3,546.55	1/2	3,169.90	1/2	2,791.77		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,944.27	3/4	4,608.35	3/4	4,268.03	3/4	3,911.21	3/4	3,538.71	3/4	3,162.02	3/4	2,783.89		
1	1	1	1	1	1	1	4,937.59	1	4,601.42	1	4,260.76	1	3,903.59	1	3,530.87	1	3,154.15	1	2,776.02		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,930.91	1/4	4,594.50	1/4	4,253.49	1/4	3,895.97	1/4	3,523.03	1/4	3,146.27	1/4	2,768.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,924.23	1/2	4,587.58	1/2	4,246.22	1/2	3,888.36	1/2	3,515.18	1/2	3,138.39	1/2	2,760.26		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,916.62	3/4	4,580.63	3/4	4,238.93	3/4	3,880.72	3/4	3,507.34	3/4	3,130.51	3/4	2,752.38		
2	2	2	2	2	2	2	4,909.01	2	4,573.67	2	4,231.63	2	3,873.08	2	3,499.50	2	3,122.64	2	2,744.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,901.39	1/4	4,566.72	1/4	4,224.34	1/4	3,865.44	1/4	3,491.65	1/4	3,114.76	1/4	2,736.63		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,893.78	1/2	4,559.77	1/2	4,217.04	1/2	3,857.80	1/2	3,483.81	1/2	3,106.88	1/2	2,728.75		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,885.94	3/4	4,552.79	3/4	4,209.71	3/4	3,850.13	3/4	3,475.97	3/4	3,099.00	3/4	2,720.87		
3	3	3	3	3	3	3	4,878.10	3	4,545.81	3	4,202.39	3	3,842.46	3	3,468.13	3	3,091.12	3	2,712.99		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,870.25	1/4	4,538.83	1/4	4,195.06	1/4	3,834.79	1/4	3,460.28	1/4	3,083.25	1/4	2,705.12		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,862.41	1/2	4,531.85	1/2	4,187.74	1/2	3,827.12	1/2	3,452.44	1/2	3,075.37	1/2	2,697.24		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,855.00	3/4	4,524.84	3/4	4,180.39	3/4	3,819.42	3/4	3,444.60	3/4	3,067.49	3/4	2,689.36		
4	4	4	4	4	4	4	4,847.59	4	4,517.82	4	4,173.03	4	3,811.73	4	3,436.75	4	3,059.61	4	2,681.48		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,840.18	1/4	4,510.81	1/4	4,165.68	1/4	3,804.03	1/4	3,428.91	1/4	3,051.74	1/4	2,673.61		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,832.77	1/2	4,503.80	1/2	4,158.32	1/2	3,796.33	1/2	3,421.07	1/2	3,043.86	1/2	2,665.73		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,826.08	3/4	4,496.77	3/4	4,150.94	3/4	3,788.60	3/4	3,413.23	3/4	3,035.98	3/4	2,657.85		
5	5	5	5	5	5	5	4,819.38	5	4,489.73	5	4,143.56	5	3,780.88	5	3,405.38	5	3,028.10	5	2,649.97		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,812.69	1/4	4,482.69	1/4	4,136.17	1/4	3,773.15	1/4	3,397.54	1/4	3,020.23	1/4	2,642.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,805.99	1/2	4,475.65	1/2	4,128.79	1/2	3,765.42	1/2	3,389.70	1/2	3,012.35	1/2	2,634.22		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,799.27	3/4	4,468.58	3/4	4,121.38	3/4	3,757.67	3/4	3,381.86	3/4	3,004.47	3/4	2,626.34		
6	6	6	6	6	6	6	4,792.54	6	4,461.51	6	4,113.97	6	3,749.91	6	3,374.01	6	2,996.59	6	2,618.46		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,785.82	1/4	4,454.44	1/4	4,106.56	1/4	3,742.16	1/4	3,366.17	1/4	2,988.71	1/4	2,610.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,779.09	1/2	4,447.38	1/2	4,099.15	1/2	3,734.40	1/2	3,358.33	1/2	2,980.84	1/2	2,602.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,772.34	3/4	4,440.28	3/4	4,091.71	3/4	3,726.62	3/4	3,350.48	3/4	2,972.96	3/4	2,594.83		
7	7	7	7	7	7	7	4,765.59	7	4,433.18	7	4,084.26	7	3,718.83	7	3,342.64	7	2,965.08	7	2,586.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,758.83	1/4	4,426.09	1/4	4,076.82	1/4	3,711.05	1/4	3,334.80	1/4	2,957.20	1/4	2,579.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,752.08	1/2	4,418.99	1/2	4,069.38	1/2	3,703.26	1/2	3,326.96	1/2	2,949.33	1/2	2,571.20		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,745.29	3/4	4,411.86	3/4	4,061.91	3/4	3,695.45	3/4	3,319.11	3/4	2,941.45	3/4	2,563.32		
8	8	8	8	8	8	8	4,738.51	8	4,404.74	8	4,054.44	8	3,687.64	8	3,311.27	8	2,933.57	8	2,555.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,731.73	1/4	4,397.61	1/4	4,046.97	1/4	3,679.82	1/4	3,303.43	1/4	2,925.69	1/4	2,547.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,724.95	1/2	4,390.48	1/2	4,039.50	1/2	3,672.01	1/2	3,295.58	1/2	2,917.81	1/2	2,539.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,718.13	3/4	4,383.33	3/4	4,032.01	3/4	3,664.17	3/4	3,287.74	3/4	2,909.94	3/4	2,531.81		
9	9	9	9	9	9	9	4,711.32	9	4,376.17	9	4,024.51	9	3,656.34	9	3,279.90	9	2,902.06	9	2,523.93		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,704.51	1/4	4,369.02	1/4	4,017.01	1/4	3,648.50	1/4	3,272.06	1/4	2,894.18	1/4	2,516.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,697.70	1/2	4,361.86	1/2	4,009.51	1/2	3,640.67	1/2	3,264.21	1/2	2,886.30	1/2	2,508.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,690.86	3/4	4,354.68	3/4	4,001.98	3/4	3,632.82	3/4	3,256.37	3/4	2,878.43	3/4	2,500.30		
10	10	10	10	10	10	10	4,684.02	10	4,347.49	10	3,994.45	10	3,624.98	10	3,248.53	10	2,870.55	10	2,492.42		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,677.18	1/4	4,340.31	1/4	3,986.92	1/4	3,617.14	1/4	3,240.68	1/4	2,862.67	1/4	2,484.54		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,670.33	1/2	4,333.12	1/2	3,979.40	1/2	3,609.30	1/2	3,232.84	1/2	2,854.79	1/2	2,476.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,663.46	3/4	4,325.91	3/4	3,971.84	3/4	3,601.45	3/4	3,224.98	3/4	2,846.92	3/4	2,468.79		
11	11	11	11	11	11	11	4,656.59	11	4,318.69	11	3,964.28	11	3,593.61	11	3,217.13	11	2,839.04	11	2,460.91		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,649.72	1/4	4,311.48	1/4	3,956.72	1/4	3,585.77	1/4	3,209.27	1/4	2,831.16	1/4	2,453.03		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,642.85	1/2	4,304.27	1/2	3,949.17	1/2	3,577.93	1/2	3,201.41	1/2	2,823.28	1/2	2,445.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,635.96	3/4	4,297.02	3/4	3,941.58	3/4	3,570.08	3/4	3,193.53	3/4	2,815.40	3/4	2,437.28		

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 28179"

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	2,429.40	0	2,051.27	0	1,673.14	0	1,295.01	0	917.16	0	539.17	0	189.51	0		0		0	
1/4	2,421.52	1/4	2,043.39	1/4	1,665.26	1/4	1,287.13	1/4	909.30	1/4	531.30	1/4	182.88	1/4	1/4	1/4		1/4	1/4
1/2	2,413.64	1/2	2,035.51	1/2	1,657.38	1/2	1,279.25	1/2	901.43	1/2	523.43	1/2	176.24	1/2	1/2	1/2		1/2	1/2
3/4	2,405.76	3/4	2,027.63	3/4	1,649.51	3/4	1,271.38	3/4	893.57	3/4	515.61	3/4	169.72	3/4	3/4	3/4		3/4	3/4
1	2,397.89	1	2,019.76	1	1,641.63	1	1,263.50	1	885.70	1	507.79	1	163.20	1	1	1		1	1
1/4	2,390.01	1/4	2,011.88	1/4	1,633.75	1/4	1,255.62	1/4	877.84	1/4	499.97	1/4	156.68	1/4	1/4	1/4		1/4	1/4
1/2	2,382.13	1/2	2,004.00	1/2	1,625.87	1/2	1,247.74	1/2	869.97	1/2	492.15	1/2	150.16	1/2	1/2	1/2		1/2	1/2
3/4	2,374.25	3/4	1,996.12	3/4	1,617.99	3/4	1,239.86	3/4	862.10	3/4	484.43	3/4	143.76	3/4	3/4	3/4		3/4	3/4
2	2,366.38	2	1,988.25	2	1,610.12	2	1,231.99	2	854.23	2	476.70	2	137.35	2	2	2		2	2
1/4	2,358.50	1/4	1,980.37	1/4	1,602.24	1/4	1,224.11	1/4	846.36	1/4	468.97	1/4	130.95	1/4	1/4	1/4		1/4	1/4
1/2	2,350.62	1/2	1,972.49	1/2	1,594.36	1/2	1,216.23	1/2	838.49	1/2	461.25	1/2	124.54	1/2	1/2	1/2		1/2	1/2
3/4	2,342.74	3/4	1,964.61	3/4	1,586.48	3/4	1,208.35	3/4	830.61	3/4	453.63	3/4	118.26	3/4	3/4	3/4		3/4	3/4
3	2,334.87	3	1,956.74	3	1,578.61	3	1,200.48	3	822.74	3	446.01	3	111.97	3	3	3		3	3
1/4	2,326.99	1/4	1,948.86	1/4	1,570.73	1/4	1,192.60	1/4	814.86	1/4	438.39	1/4	105.69	1/4	1/4	1/4		1/4	1/4
1/2	2,319.11	1/2	1,940.98	1/2	1,562.85	1/2	1,184.72	1/2	806.98	1/2	430.78	1/2	99.41	1/2	1/2	1/2		1/2	1/2
3/4	2,311.23	3/4	1,933.10	3/4	1,554.97	3/4	1,176.84	3/4	799.10	3/4	423.27	3/4	93.25	3/4	3/4	3/4		3/4	3/4
4	2,303.35	4	1,925.22	4	1,547.10	4	1,168.97	4	791.23	4	415.76	4	87.10	4	4	4		4	4
1/4	2,295.48	1/4	1,917.35	1/4	1,539.22	1/4	1,161.09	1/4	783.35	1/4	408.25	1/4	80.94	1/4	1/4	1/4		1/4	1/4
1/2	2,287.60	1/2	1,909.47	1/2	1,531.34	1/2	1,153.21	1/2	775.47	1/2	400.74	1/2	74.79	1/2	1/2	1/2		1/2	1/2
3/4	2,279.72	3/4	1,901.59	3/4	1,523.46	3/4	1,145.33	3/4	767.59	3/4	393.34	3/4	68.78	3/4	3/4	3/4		3/4	3/4
5	2,271.84	5	1,893.71	5	1,515.58	5	1,137.45	5	759.72	5	385.95	5	62.76	5	5	5		5	5
1/4	2,263.97	1/4	1,885.84	1/4	1,507.71	1/4	1,129.58	1/4	751.84	1/4	378.55	1/4	56.75	1/4	1/4	1/4		1/4	1/4
1/2	2,256.09	1/2	1,877.96	1/2	1,499.83	1/2	1,121.70	1/2	743.96	1/2	371.15	1/2	50.74	1/2	1/2	1/2		1/2	1/2
3/4	2,248.21	3/4	1,870.08	3/4	1,491.95	3/4	1,113.83	3/4	736.08	3/4	363.86	3/4	45.32	3/4	3/4	3/4		3/4	3/4
6	2,240.33	6	1,862.20	6	1,484.07	6	1,105.95	6	728.21	6	356.57	6	39.90	6	6	6		6	6
1/4	2,232.46	1/4	1,854.33	1/4	1,476.20	1/4	1,098.08	1/4	720.33	1/4	349.28	1/4	34.48	1/4	1/4	1/4		1/4	1/4
1/2	2,224.58	1/2	1,846.45	1/2	1,468.32	1/2	1,090.21	1/2	712.45	1/2	341.99	1/2	29.06	1/2	1/2	1/2		1/2	1/2
3/4	2,216.70	3/4	1,838.57	3/4	1,460.44	3/4	1,082.34	3/4	704.57	3/4	334.81	3/4	25.09	3/4	3/4	3/4		3/4	3/4
7	2,208.82	7	1,830.69	7	1,452.56	7	1,074.48	7	696.70	7	327.63	7	21.13	7	7	7		7	7
1/4	2,200.94	1/4	1,822.81	1/4	1,444.69	1/4	1,066.61	1/4	688.82	1/4	320.45	1/4	17.16	1/4	1/4	1/4		1/4	1/4
1/2	2,193.07	1/2	1,814.94	1/2	1,436.81	1/2	1,058.74	1/2	680.94	1/2	313.27	1/2	13.19	1/2	1/2	1/2		1/2	1/2
3/4	2,185.19	3/4	1,807.06	3/4	1,428.93	3/4	1,050.88	3/4	673.06	3/4	306.20	3/4		3/4	3/4	3/4		3/4	3/4
8	2,177.31	8	1,799.18	8	1,421.05	8	1,043.01	8	665.19	8	299.13	8		8	8	8		8	8
1/4	2,169.43	1/4	1,791.30	1/4	1,413.17	1/4	1,035.15	1/4	657.31	1/4	292.06	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,161.56	1/2	1,783.43	1/2	1,405.30	1/2	1,027.28	1/2	649.43	1/2	284.99	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,153.68	3/4	1,775.55	3/4	1,397.42	3/4	1,019.42	3/4	641.55	3/4	278.03	3/4		3/4	3/4	3/4		3/4	3/4
9	2,145.80	9	1,767.67	9	1,389.54	9	1,011.55	9	633.68	9	271.07	9		9	9	9		9	9
1/4	2,137.92	1/4	1,759.79	1/4	1,381.66	1/4	1,003.69	1/4	625.80	1/4	264.11	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,130.04	1/2	1,751.92	1/2	1,373.79	1/2	995.82	1/2	617.92	1/2	257.15	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,122.17	3/4	1,744.04	3/4	1,365.91	3/4	987.95	3/4	610.04	3/4	250.30	3/4		3/4	3/4	3/4		3/4	3/4
10	2,114.29	10	1,736.16	10	1,358.03	10	980.09	10	602.17	10	243.44	10		10	10	10		10	10
1/4	2,106.41	1/4	1,728.28	1/4	1,350.15	1/4	972.22	1/4	594.29	1/4	236.59	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,098.53	1/2	1,720.40	1/2	1,342.27	1/2	964.36	1/2	586.41	1/2	229.74	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,090.66	3/4	1,712.53	3/4	1,334.40	3/4	956.49	3/4	578.53	3/4	223.00	3/4		3/4	3/4	3/4		3/4	3/4
11	2,082.78	11	1,704.65	11	1,326.52	11	948.63	11	570.66	11	216.26	11		11	11	11		11	11
1/4	2,074.90	1/4	1,696.77	1/4	1,318.64	1/4	940.76	1/4	562.78	1/4	209.52	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,067.02	1/2	1,688.89	1/2	1,310.76	1/2	932.89	1/2	554.90	1/2	202.77	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,059.15	3/4	1,681.02	3/4	1,302.89	3/4	925.03	3/4	547.03	3/4	196.14	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28179"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,769.58	0	4,452.32	0	4,128.62	0	3,789.77	0	3,436.29	0	3,078.36	0	2,719.02
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,764.47	1/4	4,445.73	1/4	4,121.71	1/4	3,782.56	1/4	3,428.84	1/4	3,070.87	1/4	2,711.53
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,759.35	1/2	4,439.15	1/2	4,114.81	1/2	3,775.34	1/2	3,421.38	1/2	3,063.39	1/2	2,704.05
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,753.01	3/4	4,432.54	3/4	4,107.88	3/4	3,768.09	3/4	3,413.93	3/4	3,055.90	3/4	2,696.56
1		1		1		1	4,425.66	1	4,105.93	1	4,100.95	1	3,760.84	1	3,406.47	1	3,048.42	1	2,689.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,740.31	1/4	4,419.32	1/4	4,094.03	1/4	3,753.60	1/4	3,399.02	1/4	3,040.93	1/4	2,681.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,733.97	1/2	4,412.71	1/2	4,087.10	1/2	3,746.35	1/2	3,391.56	1/2	3,033.44	1/2	2,674.10
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,726.73	3/4	4,406.07	3/4	4,080.15	3/4	3,739.08	3/4	3,384.11	3/4	3,025.96	3/4	2,666.61
2		2		2		2	4,719.50	2	4,399.43	2	4,073.20	2	3,731.81	2	3,376.66	2	3,018.47	2	2,659.13
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,712.26	1/4	4,392.80	1/4	4,066.24	1/4	3,724.55	1/4	3,369.20	1/4	3,010.98	1/4	2,651.64
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,705.03	1/2	4,386.16	1/2	4,059.29	1/2	3,717.28	1/2	3,361.75	1/2	3,003.50	1/2	2,644.16
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,697.58	3/4	4,379.49	3/4	4,052.31	3/4	3,709.98	3/4	3,354.29	3/4	2,996.01	3/4	2,636.67
3		3		3		3	4,690.12	3	4,372.83	3	4,045.33	3	3,702.69	3	3,346.84	3	2,988.52	3	2,629.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,682.67	1/4	4,366.17	1/4	4,038.35	1/4	3,695.39	1/4	3,339.39	1/4	2,981.04	1/4	2,621.70
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,675.21	1/2	4,359.50	1/2	4,031.37	1/2	3,688.10	1/2	3,331.93	1/2	2,973.55	1/2	2,614.21
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,668.16	3/4	4,352.81	3/4	4,024.37	3/4	3,680.78	3/4	3,324.48	3/4	2,966.07	3/4	2,606.72
4		4		4		4	4,661.10	4	4,345.12	4	4,017.36	4	3,673.46	4	3,317.02	4	2,958.58	4	2,599.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,654.04	1/4	4,339.43	1/4	4,010.36	1/4	3,666.14	1/4	3,309.57	1/4	2,951.09	1/4	2,591.75
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,646.99	1/2	4,332.74	1/2	4,003.35	1/2	3,658.82	1/2	3,302.11	1/2	2,943.61	1/2	2,584.26
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,640.59	3/4	4,326.02	3/4	3,996.32	3/4	3,651.47	3/4	3,294.66	3/4	2,936.12	3/4	2,576.78
5		5		5		5	4,634.18	5	4,319.31	5	3,989.29	5	3,644.12	5	3,287.21	5	2,928.63	5	2,569.29
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,627.78	1/4	4,312.59	1/4	3,982.25	1/4	3,636.77	1/4	3,279.75	1/4	2,921.15	1/4	2,561.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,621.38	1/2	4,305.87	1/2	3,975.22	1/2	3,629.43	1/2	3,272.30	1/2	2,913.66	1/2	2,554.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,614.95	3/4	4,299.13	3/4	3,968.16	3/4	3,622.05	3/4	3,264.84	3/4	2,906.18	3/4	2,546.83
6		6		6		6	4,608.52	6	4,292.39	6	3,961.10	6	3,614.68	6	3,257.39	6	2,898.69	6	2,539.35
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,602.09	1/4	4,285.64	1/4	3,954.05	1/4	3,607.30	1/4	3,249.93	1/4	2,891.20	1/4	2,531.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,595.67	1/2	4,278.90	1/2	3,946.99	1/2	3,599.93	1/2	3,242.48	1/2	2,883.72	1/2	2,524.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,589.21	3/4	4,272.13	3/4	3,939.90	3/4	3,592.53	3/4	3,235.03	3/4	2,876.23	3/4	2,516.89
7		7		7		7	4,582.75	7	4,265.36	7	3,932.82	7	3,585.13	7	3,227.57	7	2,868.74	7	2,509.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,576.30	1/4	4,258.59	1/4	3,925.73	1/4	3,577.73	1/4	3,220.12	1/4	2,861.26	1/4	2,501.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,569.84	1/2	4,251.82	1/2	3,918.64	1/2	3,570.33	1/2	3,212.66	1/2	2,853.77	1/2	2,494.43
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,563.36	3/4	4,245.02	3/4	3,911.53	3/4	3,562.90	3/4	3,205.21	3/4	2,846.29	3/4	2,486.94
8		8		8		8	4,556.88	8	4,238.22	8	3,904.42	8	3,555.47	8	3,197.76	8	2,838.80	8	2,479.46
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,550.40	1/4	4,231.43	1/4	3,897.31	1/4	3,548.04	1/4	3,190.30	1/4	2,831.31	1/4	2,471.97
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,543.92	1/2	4,224.63	1/2	3,890.20	1/2	3,540.62	1/2	3,182.85	1/2	2,823.83	1/2	2,464.48
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,537.41	3/4	4,217.81	3/4	3,883.06	3/4	3,533.17	3/4	3,175.39	3/4	2,816.34	3/4	2,457.00
9		9		9		9	4,530.90	9	4,210.98	9	3,875.92	9	3,525.72	9	3,167.94	9	2,808.85	9	2,449.51
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,524.39	1/4	4,204.16	1/4	3,868.78	1/4	3,518.28	1/4	3,160.48	1/4	2,801.37	1/4	2,442.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,517.88	1/2	4,197.34	1/2	3,861.64	1/2	3,510.83	1/2	3,153.03	1/2	2,793.88	1/2	2,434.54
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,511.34	3/4	4,190.48	3/4	3,854.48	3/4	3,503.38	3/4	3,145.58	3/4	2,786.39	3/4	2,427.05
10		10		10		10	4,504.81	10	4,183.63	10	3,847.31	10	3,495.92	10	3,138.12	10	2,778.91	10	2,419.57
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,498.27	1/4	4,176.78	1/4	3,840.15	1/4	3,488.47	1/4	3,130.67	1/4	2,771.42	1/4	2,412.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,491.74	1/2	4,169.93	1/2	3,832.98	1/2	3,481.02	1/2	3,123.21	1/2	2,763.94	1/2	2,404.59
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,485.18	3/4	4,163.06	3/4	3,825.79	3/4	3,473.56	3/4	3,115.74	3/4	2,756.45	3/4	2,397.11
11		11		11		11	4,478.61	11	4,156.18	11	3,818.60	11	3,466.11	11	3,108.27	11	2,748.96	11	2,389.62
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,472.05	1/4	4,149.30	1/4	3,811.40	1/4	3,458.65	1/4	3,100.80	1/4	2,741.48	1/4	2,382.13
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,465.49	1/2	4,142.43	1/2	3,804.21	1/2	3,451.20	1/2	3,093.33	1/2	2,733.99	1/2	2,374.65
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,458.90	3/4	4,135.52	3/4	3,796.99	3/4	3,443.74	3/4	3,085.85	3/4	2,726.50	3/4	2,367.16

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 28179"

2 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	2,359.68	0	2,000.33	0	1,640.99	0	1,290.56	0	945.46	0	587.48	0	228.15	0		0		0	
1/4	2,352.19	1/4	1,992.85	1/4	1,633.50	1/4	1,283.36	1/4	938.28	1/4	580.00	1/4	220.67	1/4	1/4	1/4		1/4	
1/2	2,344.70	1/2	1,985.36	1/2	1,626.02	1/2	1,276.16	1/2	931.09	1/2	572.51	1/2	213.18	1/2	1/2	1/2		1/2	
3/4	2,337.22	3/4	1,977.87	3/4	1,618.53	3/4	1,268.96	3/4	923.79	3/4	565.03	3/4	205.70	3/4	3/4	3/4		3/4	
1	2,329.73	1	1,970.39	1	1,611.05	1	1,261.75	1	916.50	1	557.54	1	198.21	1	1	1		1	
1/4	2,322.24	1/4	1,962.90	1/4	1,603.56	1/4	1,254.55	1/4	909.20	1/4	550.05	1/4	190.73	1/4	1/4	1/4		1/4	
1/2	2,314.76	1/2	1,955.42	1/2	1,596.07	1/2	1,247.35	1/2	901.90	1/2	542.57	1/2	183.24	1/2	1/2	1/2		1/2	
3/4	2,307.27	3/4	1,947.93	3/4	1,588.59	3/4	1,240.14	3/4	894.41	3/4	535.08	3/4	175.77	3/4	3/4	3/4		3/4	
2	2,299.79	2	1,940.44	2	1,581.10	2	1,232.94	2	886.93	2	527.59	2	168.29	2	2	2		2	
1/4	2,292.30	1/4	1,932.96	1/4	1,573.61	1/4	1,225.74	1/4	879.44	1/4	520.11	1/4	160.81	1/4	1/4	1/4		1/4	
1/2	2,284.81	1/2	1,925.47	1/2	1,566.13	1/2	1,218.53	1/2	871.96	1/2	512.62	1/2	153.33	1/2	1/2	1/2		1/2	
3/4	2,277.33	3/4	1,917.98	3/4	1,558.64	3/4	1,211.33	3/4	864.47	3/4	505.14	3/4	145.87	3/4	3/4	3/4		3/4	
3	2,269.84	3	1,910.50	3	1,551.16	3	1,204.14	3	856.98	3	497.65	3	138.40	3	3	3		3	
1/4	2,262.35	1/4	1,903.01	1/4	1,543.67	1/4	1,196.94	1/4	849.50	1/4	490.16	1/4	130.93	1/4	1/4	1/4		1/4	
1/2	2,254.87	1/2	1,895.53	1/2	1,536.18	1/2	1,189.74	1/2	842.01	1/2	482.68	1/2	123.47	1/2	1/2	1/2		1/2	
3/4	2,247.38	3/4	1,888.04	3/4	1,528.80	3/4	1,182.55	3/4	834.52	3/4	475.19	3/4	116.02	3/4	3/4	3/4		3/4	
4	2,239.89	4	1,880.55	4	1,521.42	4	1,175.36	4	827.04	4	467.71	4	108.57	4	4	4		4	
1/4	2,232.41	1/4	1,873.07	1/4	1,514.04	1/4	1,168.17	1/4	819.55	1/4	460.22	1/4	101.12	1/4	1/4	1/4		1/4	
1/2	2,224.92	1/2	1,865.58	1/2	1,506.66	1/2	1,160.98	1/2	812.07	1/2	452.73	1/2	93.67	1/2	1/2	1/2		1/2	
3/4	2,217.44	3/4	1,858.09	3/4	1,499.46	3/4	1,153.79	3/4	804.58	3/4	445.25	3/4	86.26	3/4	3/4	3/4		3/4	
5	2,209.95	5	1,850.61	5	1,492.25	5	1,146.60	5	797.09	5	437.76	5	78.84	5	5	5		5	
1/4	2,202.46	1/4	1,843.12	1/4	1,485.05	1/4	1,139.41	1/4	789.61	1/4	430.28	1/4	71.42	1/4	1/4	1/4		1/4	
1/2	2,194.98	1/2	1,835.63	1/2	1,477.85	1/2	1,132.22	1/2	782.12	1/2	422.79	1/2	64.00	1/2	1/2	1/2		1/2	
3/4	2,187.49	3/4	1,828.15	3/4	1,470.64	3/4	1,125.04	3/4	774.64	3/4	415.30	3/4	57.05	3/4	3/4	3/4		3/4	
6	2,180.00	6	1,820.66	6	1,463.44	6	1,117.86	6	767.15	6	407.82	6	50.09	6	6	6		6	
1/4	2,172.52	1/4	1,813.18	1/4	1,456.24	1/4	1,110.67	1/4	759.66	1/4	400.33	1/4	43.13	1/4	1/4	1/4		1/4	
1/2	2,165.03	1/2	1,805.69	1/2	1,449.04	1/2	1,103.49	1/2	752.18	1/2	392.85	1/2	36.17	1/2	1/2	1/2		1/2	
3/4	2,157.55	3/4	1,798.20	3/4	1,441.83	3/4	1,096.31	3/4	744.69	3/4	385.36	3/4	30.87	3/4	3/4	3/4		3/4	
7	2,150.06	7	1,790.72	7	1,434.63	7	1,089.12	7	737.21	7	377.87	7	25.57	7	7	7		7	
1/4	2,142.57	1/4	1,783.23	1/4	1,427.43	1/4	1,081.94	1/4	729.72	1/4	370.39	1/4	20.27	1/4	1/4	1/4		1/4	
1/2	2,135.09	1/2	1,775.74	1/2	1,420.22	1/2	1,074.76	1/2	722.23	1/2	362.90	1/2	14.97	1/2	1/2	1/2		1/2	
3/4	2,127.60	3/4	1,768.26	3/4	1,413.02	3/4	1,067.57	3/4	714.75	3/4	355.41	3/4		3/4	3/4	3/4		3/4	
8	2,120.11	8	1,760.77	8	1,405.82	8	1,060.39	8	707.26	8	347.93	8		8	8	8		8	
1/4	2,112.63	1/4	1,753.29	1/4	1,398.61	1/4	1,053.21	1/4	699.78	1/4	340.44	1/4		1/4	1/4	1/4		1/4	
1/2	2,105.14	1/2	1,745.80	1/2	1,391.41	1/2	1,046.03	1/2	692.29	1/2	332.96	1/2		1/2	1/2	1/2		1/2	
3/4	2,097.66	3/4	1,738.31	3/4	1,384.21	3/4	1,038.84	3/4	684.80	3/4	325.47	3/4		3/4	3/4	3/4		3/4	
9	2,090.17	9	1,730.83	9	1,377.00	9	1,031.66	9	677.32	9	317.98	9		9	9	9		9	
1/4	2,082.68	1/4	1,723.34	1/4	1,369.80	1/4	1,024.48	1/4	669.83	1/4	310.50	1/4		1/4	1/4	1/4		1/4	
1/2	2,075.20	1/2	1,715.85	1/2	1,362.60	1/2	1,017.29	1/2	662.34	1/2	303.01	1/2		1/2	1/2	1/2		1/2	
3/4	2,067.71	3/4	1,708.37	3/4	1,355.39	3/4	1,010.11	3/4	654.86	3/4	295.53	3/4		3/4	3/4	3/4		3/4	
10	2,060.22	10	1,700.88	10	1,348.19	10	1,002.93	10	647.37	10	288.04	10		10	10	10		10	
1/4	2,052.74	1/4	1,693.39	1/4	1,340.99	1/4	995.74	1/4	639.89	1/4	280.55	1/4		1/4	1/4	1/4		1/4	
1/2	2,045.25	1/2	1,685.91	1/2	1,333.78	1/2	988.56	1/2	632.40	1/2	273.07	1/2		1/2	1/2	1/2		1/2	
3/4	2,037.76	3/4	1,678.42	3/4	1,326.58	3/4	981.38	3/4	624.91	3/4	265.58	3/4		3/4	3/4	3/4		3/4	
11	2,030.28	11	1,670.94	11	1,319.38	11	974.19	11	617.43	11	258.10	11		11	11	11		11	
1/4	2,022.79	1/4	1,663.45	1/4	1,312.17	1/4	967.01	1/4	609.94	1/4	250.61	1/4		1/4	1/4	1/4		1/4	
1/2	2,015.31	1/2	1,655.96	1/2	1,304.97	1/2	959.83	1/2	602.46	1/2	243.12	1/2		1/2	1/2	1/2		1/2	
3/4	2,007.82	3/4	1,648.48	3/4	1,297.77	3/4	952.64	3/4	594.97	3/4	235.64	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28179"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
							4,788.60		4,469.87		4,145.85		3,806.69		3,452.97		3,095.03		2,735.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,783.49	1/4	4,463.28	1/4	4,138.94	1/4	3,799.47	1/4	3,445.52	1/4	3,087.54	1/4	2,728.20
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,777.14	1/2	4,456.67	1/2	4,132.01	1/2	3,792.22	1/2	3,438.06	1/2	3,080.06	1/2	2,720.71
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,770.79	3/4	4,450.06	3/4	4,125.09	3/4	3,784.98	3/4	3,430.61	3/4	3,072.57	3/4	2,713.22
1	1	1	1	1	1	1	4,443.45	1	4,443.45	1	4,118.16	1	3,777.73	1	3,423.15	1	3,065.08	1	2,705.74
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,758.10	1/4	4,436.84	1/4	4,111.23	1/4	3,770.49	1/4	3,415.70	1/4	3,057.60	1/4	2,698.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,750.87	1/2	4,430.20	1/2	4,104.28	1/2	3,763.22	1/2	3,408.24	1/2	3,050.11	1/2	2,690.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,743.63	3/4	4,423.57	3/4	4,097.33	3/4	3,755.95	3/4	3,400.79	3/4	3,042.63	3/4	2,683.28
2	2	2	2	2	2	2	4,736.40	2	4,416.93	2	4,090.38	2	3,748.68	2	3,393.34	2	3,035.14	2	2,675.79
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,729.16	1/4	4,410.29	1/4	4,083.43	1/4	3,741.41	1/4	3,385.88	1/4	3,027.65	1/4	2,668.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,721.71	1/2	4,403.63	1/2	4,076.45	1/2	3,734.12	1/2	3,378.43	1/2	3,020.17	1/2	2,660.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,714.26	3/4	4,396.96	3/4	4,069.47	3/4	3,726.82	3/4	3,370.97	3/4	3,012.68	3/4	2,653.33
3	3	3	3	3	3	3	4,706.80	3	4,390.30	3	4,062.49	3	3,719.53	3	3,363.52	3	3,005.19	3	2,645.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,699.35	1/4	4,383.64	1/4	4,055.51	1/4	3,712.24	1/4	3,356.07	1/4	2,997.71	1/4	2,638.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,692.29	1/2	4,376.95	1/2	4,048.50	1/2	3,704.91	1/2	3,348.61	1/2	2,990.22	1/2	2,630.87
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,685.23	3/4	4,370.26	3/4	4,041.50	3/4	3,697.59	3/4	3,341.16	3/4	2,982.73	3/4	2,623.39
4	4	4	4	4	4	4	4,678.18	4	4,363.57	4	4,034.49	4	3,690.27	4	3,333.70	4	2,975.25	4	2,615.90
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,671.12	1/4	4,356.87	1/4	4,027.49	1/4	3,682.95	1/4	3,326.25	1/4	2,967.76	1/4	2,608.41
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,664.72	1/2	4,350.16	1/2	4,020.45	1/2	3,675.60	1/2	3,318.79	1/2	2,960.28	1/2	2,600.93
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,658.32	3/4	4,343.44	3/4	4,013.42	3/4	3,668.25	3/4	3,311.34	3/4	2,952.79	3/4	2,593.44
5	5	5	5	5	5	5	4,651.92	5	4,336.73	5	4,006.39	5	3,660.91	5	3,303.89	5	2,945.30	5	2,585.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,645.51	1/4	4,330.01	1/4	3,999.36	1/4	3,653.56	1/4	3,296.43	1/4	2,937.82	1/4	2,578.47
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,639.09	1/2	4,323.26	1/2	3,992.30	1/2	3,646.19	1/2	3,288.98	1/2	2,930.33	1/2	2,570.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,632.66	3/4	4,316.52	3/4	3,985.24	3/4	3,638.81	3/4	3,281.52	3/4	2,922.84	3/4	2,563.50
6	6	6	6	6	6	6	4,626.23	6	4,309.78	6	3,978.18	6	3,631.44	6	3,274.07	6	2,915.36	6	2,556.01
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,619.80	1/4	4,303.03	1/4	3,971.12	1/4	3,624.06	1/4	3,266.62	1/4	2,907.87	1/4	2,548.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,613.34	1/2	4,296.26	1/2	3,964.04	1/2	3,616.66	1/2	3,259.16	1/2	2,900.38	1/2	2,541.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,606.89	3/4	4,289.49	3/4	3,956.95	3/4	3,609.26	3/4	3,251.71	3/4	2,892.90	3/4	2,533.55
7	7	7	7	7	7	7	4,600.43	7	4,282.72	7	3,949.87	7	3,601.86	7	3,244.25	7	2,885.41	7	2,526.06
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,593.98	1/4	4,275.95	1/4	3,942.78	1/4	3,594.46	1/4	3,236.80	1/4	2,877.92	1/4	2,518.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,587.50	1/2	4,269.16	1/2	3,935.67	1/2	3,587.03	1/2	3,229.34	1/2	2,870.44	1/2	2,511.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,581.01	3/4	4,262.36	3/4	3,928.56	3/4	3,579.61	3/4	3,221.89	3/4	2,862.95	3/4	2,503.60
8	8	8	8	8	8	8	4,574.53	8	4,255.56	8	3,921.44	8	3,572.18	8	3,214.44	8	2,855.47	8	2,496.12
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,568.05	1/4	4,248.76	1/4	3,914.33	1/4	3,564.75	1/4	3,206.98	1/4	2,847.98	1/4	2,488.63
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,561.54	1/2	4,241.94	1/2	3,907.19	1/2	3,557.30	1/2	3,199.53	1/2	2,840.49	1/2	2,481.15
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,555.03	3/4	4,235.12	3/4	3,900.05	3/4	3,549.86	3/4	3,192.07	3/4	2,833.01	3/4	2,473.66
9	9	9	9	9	9	9	4,548.52	9	4,228.29	9	3,892.92	9	3,542.41	9	3,184.62	9	2,825.52	9	2,466.17
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,542.01	1/4	4,221.47	1/4	3,885.78	1/4	3,534.97	1/4	3,177.16	1/4	2,818.03	1/4	2,458.69
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,535.48	1/2	4,214.62	1/2	3,878.61	1/2	3,527.51	1/2	3,169.71	1/2	2,810.55	1/2	2,451.20
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,528.94	3/4	4,207.77	3/4	3,871.45	3/4	3,520.06	3/4	3,162.26	3/4	2,803.06	3/4	2,443.71
10	10	10	10	10	10	10	4,522.41	10	4,200.92	10	3,864.28	10	3,512.60	10	3,154.80	10	2,795.57	10	2,436.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,515.87	1/4	4,194.07	1/4	3,857.12	1/4	3,505.15	1/4	3,147.35	1/4	2,788.09	1/4	2,428.74
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,509.31	1/2	4,187.19	1/2	3,849.92	1/2	3,497.70	1/2	3,139.88	1/2	2,780.60	1/2	2,421.25
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,502.75	3/4	4,180.31	3/4	3,842.73	3/4	3,490.24	3/4	3,132.42	3/4	2,773.12	3/4	2,413.77
11	11	11	11	11	11	11	4,496.19	11	4,173.44	11	3,835.54	11	3,482.79	11	3,124.95	11	2,765.63	11	2,406.28
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,489.62	1/4	4,166.56	1/4	3,828.34	1/4	3,475.33	1/4	3,117.49	1/4	2,758.14	1/4	2,398.80
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,483.04	1/2	4,159.66	1/2	3,821.13	1/2	3,467.88	1/2	3,110.00	1/2	2,750.66	1/2	2,391.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,476.45	3/4	4,152.75	3/4	3,813.91	3/4	3,460.42	3/4	3,102.52	3/4	2,743.17	3/4	2,383.82

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28179"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 1/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,376.34	0	2,016.99	0	1,657.64	0	1,298.29	0	939.25	0	580.00	0	220.67	0		0		0	
1/4	2,368.85	1/4	2,009.50	1/4	1,650.16	1/4	1,290.81	1/4	931.77	1/4	572.51	1/4	213.18	1/4	1/4	1/4		1/4	
1/2	2,361.36	1/2	2,002.02	1/2	1,642.67	1/2	1,283.32	1/2	924.30	1/2	565.03	1/2	205.70	1/2	1/2	1/2		1/2	
3/4	2,353.88	3/4	1,994.53	3/4	1,635.18	3/4	1,275.84	3/4	916.82	3/4	557.54	3/4	198.21	3/4	3/4	3/4		3/4	
1	2,346.39	1	1,987.04	1	1,627.70	1	1,268.35	1	909.35	1	550.05	1	190.73	1	1	1		1	
1/4	2,338.90	1/4	1,979.56	1/4	1,620.21	1/4	1,260.86	1/4	901.87	1/4	542.57	1/4	183.24	1/4	1/4	1/4		1/4	
1/2	2,331.42	1/2	1,972.07	1/2	1,612.72	1/2	1,253.38	1/2	894.39	1/2	535.08	1/2	175.77	1/2	1/2	1/2		1/2	
3/4	2,323.93	3/4	1,964.58	3/4	1,605.24	3/4	1,245.89	3/4	886.92	3/4	527.59	3/4	168.29	3/4	3/4	3/4		3/4	
2	2,316.44	2	1,957.10	2	1,597.75	2	1,238.40	2	879.44	2	520.11	2	160.81	2	2	2		2	
1/4	2,308.96	1/4	1,949.61	1/4	1,590.26	1/4	1,230.92	1/4	871.96	1/4	512.62	1/4	153.33	1/4	1/4	1/4		1/4	
1/2	2,301.47	1/2	1,942.12	1/2	1,582.78	1/2	1,223.43	1/2	864.47	1/2	505.14	1/2	145.87	1/2	1/2	1/2		1/2	
3/4	2,293.99	3/4	1,934.64	3/4	1,575.29	3/4	1,215.94	3/4	856.98	3/4	497.65	3/4	138.40	3/4	3/4	3/4		3/4	
3	2,286.50	3	1,927.15	3	1,567.80	3	1,208.46	3	849.50	3	490.16	3	130.93	3	3	3		3	
1/4	2,279.01	1/4	1,919.67	1/4	1,560.32	1/4	1,200.97	1/4	842.01	1/4	482.68	1/4	123.47	1/4	1/4	1/4		1/4	
1/2	2,271.53	1/2	1,912.18	1/2	1,552.83	1/2	1,193.48	1/2	834.53	1/2	475.19	1/2	116.02	1/2	1/2	1/2		1/2	
3/4	2,264.04	3/4	1,904.69	3/4	1,545.35	3/4	1,186.00	3/4	827.04	3/4	467.71	3/4	108.57	3/4	3/4	3/4		3/4	
4	2,256.55	4	1,897.21	4	1,537.86	4	1,178.51	4	819.55	4	460.22	4	101.12	4	4	4		4	
1/4	2,249.07	1/4	1,889.72	1/4	1,530.37	1/4	1,171.03	1/4	812.07	1/4	452.73	1/4	93.67	1/4	1/4	1/4		1/4	
1/2	2,241.58	1/2	1,882.23	1/2	1,522.89	1/2	1,163.54	1/2	804.58	1/2	445.25	1/2	86.26	1/2	1/2	1/2		1/2	
3/4	2,234.09	3/4	1,874.75	3/4	1,515.40	3/4	1,156.05	3/4	797.09	3/4	437.76	3/4	78.84	3/4	3/4	3/4		3/4	
5	2,226.61	5	1,867.26	5	1,507.91	5	1,148.57	5	789.61	5	430.28	5	71.42	5	5	5		5	
1/4	2,219.12	1/4	1,859.77	1/4	1,500.43	1/4	1,141.08	1/4	782.12	1/4	422.79	1/4	64.00	1/4	1/4	1/4		1/4	
1/2	2,211.64	1/2	1,852.29	1/2	1,492.94	1/2	1,133.60	1/2	774.64	1/2	415.30	1/2	57.05	1/2	1/2	1/2		1/2	
3/4	2,204.15	3/4	1,844.80	3/4	1,485.45	3/4	1,126.12	3/4	767.15	3/4	407.82	3/4	50.09	3/4	3/4	3/4		3/4	
6	2,196.66	6	1,837.32	6	1,477.97	6	1,118.63	6	759.66	6	400.33	6	43.13	6	6	6		6	
1/4	2,189.18	1/4	1,829.83	1/4	1,470.48	1/4	1,111.15	1/4	752.18	1/4	392.85	1/4	36.17	1/4	1/4	1/4		1/4	
1/2	2,181.69	1/2	1,822.34	1/2	1,463.00	1/2	1,103.68	1/2	744.69	1/2	385.36	1/2	30.87	1/2	1/2	1/2		1/2	
3/4	2,174.20	3/4	1,814.86	3/4	1,455.51	3/4	1,096.20	3/4	737.21	3/4	377.87	3/4	25.57	3/4	3/4	3/4		3/4	
7	2,166.72	7	1,807.37	7	1,448.02	7	1,088.73	7	729.72	7	370.39	7	20.27	7	7	7		7	
1/4	2,159.23	1/4	1,799.88	1/4	1,440.54	1/4	1,081.26	1/4	722.23	1/4	362.90	1/4	14.97	1/4	1/4	1/4		1/4	
1/2	2,151.74	1/2	1,792.40	1/2	1,433.05	1/2	1,073.78	1/2	714.75	1/2	355.41	1/2		1/2	1/2	1/2		1/2	
3/4	2,144.26	3/4	1,784.91	3/4	1,425.56	3/4	1,066.31	3/4	707.26	3/4	347.93	3/4		3/4	3/4	3/4		3/4	
8	2,136.77	8	1,777.42	8	1,418.08	8	1,058.83	8	699.78	8	340.44	8		8	8	8		8	
1/4	2,129.28	1/4	1,769.94	1/4	1,410.59	1/4	1,051.36	1/4	692.29	1/4	332.96	1/4		1/4	1/4	1/4		1/4	
1/2	2,121.80	1/2	1,762.45	1/2	1,403.10	1/2	1,043.88	1/2	684.80	1/2	325.47	1/2		1/2	1/2	1/2		1/2	
3/4	2,114.31	3/4	1,754.96	3/4	1,395.62	3/4	1,036.41	3/4	677.32	3/4	317.98	3/4		3/4	3/4	3/4		3/4	
9	2,106.83	9	1,747.48	9	1,388.13	9	1,028.94	9	669.83	9	310.50	9		9	9	9		9	
1/4	2,099.34	1/4	1,739.99	1/4	1,380.64	1/4	1,021.46	1/4	662.34	1/4	303.01	1/4		1/4	1/4	1/4		1/4	
1/2	2,091.85	1/2	1,732.51	1/2	1,373.16	1/2	1,013.99	1/2	654.86	1/2	295.53	1/2		1/2	1/2	1/2		1/2	
3/4	2,084.37	3/4	1,725.02	3/4	1,365.67	3/4	1,006.51	3/4	647.37	3/4	288.04	3/4		3/4	3/4	3/4		3/4	
10	2,076.88	10	1,717.53	10	1,358.19	10	999.04	10	639.89	10	280.55	10		10	10	10		10	
1/4	2,069.39	1/4	1,710.05	1/4	1,350.70	1/4	991.57	1/4	632.40	1/4	273.07	1/4		1/4	1/4	1/4		1/4	
1/2	2,061.91	1/2	1,702.56	1/2	1,343.21	1/2	984.09	1/2	624.91	1/2	265.58	1/2		1/2	1/2	1/2		1/2	
3/4	2,054.42	3/4	1,695.07	3/4	1,335.73	3/4	976.62	3/4	617.43	3/4	258.10	3/4		3/4	3/4	3/4		3/4	
11	2,046.93	11	1,687.59	11	1,328.24	11	969.14	11	609.94	11	250.61	11		11	11	11		11	
1/4	2,039.45	1/4	1,680.10	1/4	1,320.75	1/4	961.67	1/4	602.46	1/4	243.12	1/4		1/4	1/4	1/4		1/4	
1/2	2,031.96	1/2	1,672.61	1/2	1,313.27	1/2	954.19	1/2	594.97	1/2	235.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,024.48	3/4	1,665.13	3/4	1,305.78	3/4	946.72	3/4	587.48	3/4	228.15	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28179"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	4,353.01	0	4,111.75	0	3,865.08	0	3,606.43	0	3,336.13	0	2,982.03	0	2,625.58
1/4		1/4		1/4		1/4	4,348.38	1/4	4,106.74	1/4	3,859.82	1/4	3,600.92	1/4	3,330.43	1/4	2,974.60	1/4	2,618.15
1/2		1/2		1/2		1/2	4,344.22	1/2	4,101.71	1/2	3,854.54	1/2	3,595.39	1/2	3,323.00	1/2	2,967.17	1/2	2,610.73
3/4		3/4		3/4		3/4	4,340.07	3/4	4,096.68	3/4	3,849.26	3/4	3,589.86	3/4	3,315.57	3/4	2,959.75	3/4	2,603.30
1		1		1		1	4,335.92	1	4,091.66	1	3,843.98	1	3,584.32	1	3,308.14	1	2,952.32	1	2,595.87
1/4		1/4		1/4		1/4	4,331.77	1/4	4,086.63	1/4	3,838.70	1/4	3,578.79	1/4	3,300.71	1/4	2,944.90	1/4	2,588.45
1/2		1/2		1/2		1/2	4,326.41	1/2	4,081.58	1/2	3,833.40	1/2	3,573.24	1/2	3,293.28	1/2	2,937.47	1/2	2,581.02
3/4		3/4		3/4		3/4	4,321.06	3/4	4,076.53	3/4	3,828.11	3/4	3,567.69	3/4	3,285.85	3/4	2,930.04	3/4	2,573.60
2		2		2		2	4,315.70	2	4,071.48	2	3,822.81	2	3,562.14	2	3,278.42	2	2,922.62	2	2,566.17
1/4		1/4		1/4		1/4	4,310.34	1/4	4,066.43	1/4	3,817.51	1/4	3,556.59	1/4	3,271.00	1/4	2,915.19	1/4	2,558.74
1/2		1/2		1/2		1/2	4,304.64	1/2	4,061.36	1/2	3,812.19	1/2	3,551.02	1/2	3,263.57	1/2	2,907.77	1/2	2,551.32
3/4		3/4		3/4		3/4	4,298.93	3/4	4,056.29	3/4	3,806.87	3/4	3,545.45	3/4	3,256.14	3/4	2,900.34	3/4	2,543.89
3		3		3		3	4,293.23	3	4,051.22	3	3,801.55	3	3,539.89	3	3,248.71	3	2,892.91	3	2,536.47
1/4		1/4		1/4		1/4	4,287.53	1/4	4,046.15	1/4	3,796.22	1/4	3,534.32	1/4	3,241.28	1/4	2,885.49	1/4	2,529.04
1/2		1/2		1/2		1/2	4,281.82	1/2	4,041.06	1/2	3,790.88	1/2	3,528.73	1/2	3,233.85	1/2	2,878.06	1/2	2,521.61
3/4		3/4		3/4		3/4	4,276.12	3/4	4,035.97	3/4	3,785.54	3/4	3,523.13	3/4	3,226.42	3/4	2,870.64	3/4	2,514.19
4		4		4		4	4,270.41	4	4,030.88	4	3,780.20	4	3,517.54	4	3,218.99	4	2,863.21	4	2,506.76
1/4		1/4		1/4		1/4	4,264.71	1/4	4,025.78	1/4	3,774.86	1/4	3,511.95	1/4	3,211.56	1/4	2,855.78	1/4	2,499.34
1/2		1/2		1/2		1/2	4,259.84	1/2	4,020.67	1/2	3,769.50	1/2	3,506.34	1/2	3,204.16	1/2	2,848.36	1/2	2,491.91
3/4		3/4		3/4		3/4	4,254.98	3/4	4,015.56	3/4	3,764.14	3/4	3,500.73	3/4	3,196.76	3/4	2,840.93	3/4	2,484.48
5		5		5		5	4,250.12	5	4,010.45	5	3,758.77	5	3,495.12	5	3,189.36	5	2,833.51	5	2,477.06
1/4		1/4		1/4		1/4	4,245.25	1/4	4,005.34	1/4	3,753.41	1/4	3,489.51	1/4	3,181.95	1/4	2,826.08	1/4	2,469.63
1/2		1/2		1/2		1/2	4,240.37	1/2	4,000.20	1/2	3,748.03	1/2	3,483.87	1/2	3,174.55	1/2	2,818.65	1/2	2,462.21
3/4		3/4		3/4		3/4	4,235.49	3/4	3,995.07	3/4	3,742.65	3/4	3,478.24	3/4	3,167.15	3/4	2,811.23	3/4	2,454.78
6		6		6		6	4,230.61	6	3,990.94	6	3,737.27	6	3,472.61	6	3,159.75	6	2,803.80	6	2,447.35
1/4		1/4		1/4		1/4	4,225.72	1/4	3,984.80	1/4	3,731.88	1/4	3,466.97	1/4	3,152.35	1/4	2,796.38	1/4	2,439.93
1/2		1/2		1/2		1/2	4,220.82	1/2	3,979.65	1/2	3,726.48	1/2	3,461.32	1/2	3,144.94	1/2	2,788.95	1/2	2,432.50
3/4		3/4		3/4		3/4	4,215.91	3/4	3,974.50	3/4	3,721.07	3/4	3,455.67	3/4	3,137.54	3/4	2,781.52	3/4	2,425.08
7		7		7		7	4,211.00	7	3,969.34	7	3,715.67	7	3,450.01	7	3,130.14	7	2,774.10	7	2,417.65
1/4		1/4		1/4		1/4	4,206.10	1/4	3,964.19	1/4	3,710.26	1/4	3,444.36	1/4	3,122.74	1/4	2,766.67	1/4	2,410.22
1/2		1/2		1/2		1/2	4,201.17	1/2	3,959.01	1/2	3,704.84	1/2	3,438.69	1/2	3,115.34	1/2	2,759.25	1/2	2,402.80
3/4		3/4		3/4		3/4	4,196.25	3/4	3,953.83	3/4	3,699.42	3/4	3,433.01	3/4	3,107.93	3/4	2,751.82	3/4	2,395.37
8		8		8		8	4,191.33	8	3,948.66	8	3,693.99	8	3,427.33	8	3,100.53	8	2,744.39	8	2,387.95
1/4		1/4		1/4		1/4	4,186.40	1/4	3,943.48	1/4	3,688.57	1/4	3,421.66	1/4	3,093.13	1/4	2,736.97	1/4	2,380.52
1/2		1/2		1/2		1/2	4,181.45	1/2	3,938.28	1/2	3,683.12	1/2	3,415.96	1/2	3,085.73	1/2	2,729.54	1/2	2,373.09
3/4		3/4		3/4		3/4	4,176.50	3/4	3,933.09	3/4	3,677.67	3/4	3,410.27	3/4	3,078.33	3/4	2,722.12	3/4	2,365.67
9		9		9		9	4,171.55	9	3,927.89	9	3,672.23	9	3,404.57	9	3,070.92	9	2,714.69	9	2,358.24
1/4		1/4		1/4		1/4	4,166.60	1/4	3,922.70	1/4	3,666.78	1/4	3,398.88	1/4	3,063.52	1/4	2,707.26	1/4	2,350.81
1/2		1/2		1/2		1/2	4,161.64	1/2	3,917.48	1/2	3,661.31	1/2	3,393.17	1/2	3,056.12	1/2	2,699.84	1/2	2,343.39
3/4		3/4		3/4		3/4	4,156.67	3/4	3,912.26	3/4	3,655.85	3/4	3,387.47	3/4	3,048.72	3/4	2,692.41	3/4	2,335.96
10		10		10		10	4,151.71	10	3,907.04	10	3,650.38	10	3,381.77	10	3,041.31	10	2,684.99	10	2,328.53
1/4		1/4		1/4		1/4	4,146.74	1/4	3,901.82	1/4	3,644.92	1/4	3,376.06	1/4	3,033.91	1/4	2,677.56	1/4	2,321.11
1/2		1/2		1/2		1/2	4,141.75	1/2	3,896.58	1/2	3,639.43	1/2	3,370.36	1/2	3,026.51	1/2	2,670.13	1/2	2,313.68
3/4		3/4		3/4		3/4	4,136.76	3/4	3,891.34	3/4	3,633.94	3/4	3,364.65	3/4	3,019.11	3/4	2,662.71	3/4	2,306.26
11		11		11		11	4,131.76	11	3,886.11	11	3,628.45	11	3,358.95	11	3,011.71	11	2,655.28	11	2,298.83
1/4		1/4		1/4	4,366.91	1/4	4,126.77	1/4	3,880.87	1/4	3,622.96	1/4	3,353.25	1/4	3,004.30	1/4	2,647.86	1/4	2,291.40
1/2		1/2		1/2	4,362.28	1/2	4,121.76	1/2	3,875.61	1/2	3,617.45	1/2	3,347.54	1/2	2,996.88	1/2	2,640.43	1/2	2,283.98
3/4		3/4		3/4	4,357.64	3/4	4,116.76	3/4	3,870.34	3/4	3,611.94	3/4	3,341.84	3/4	2,989.45	3/4	2,633.00	3/4	2,276.55

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

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 28179"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,269.12	0	1,912.21	0	1,556.30	0	1,199.98	0	855.47	0	498.45	0	141.24	0		0		0	
1/4	2,261.70	1/4	1,904.77	1/4	1,548.88	1/4	1,192.81	1/4	848.05	1/4	491.01	1/4	133.80	1/4	1/4		1/4		1/4
1/2	2,254.27	1/2	1,897.36	1/2	1,541.44	1/2	1,185.63	1/2	840.63	1/2	483.57	1/2	126.36	1/2	1/2		1/2		1/2
3/4	2,246.84	3/4	1,889.94	3/4	1,534.00	3/4	1,178.46	3/4	833.21	3/4	476.13	3/4	118.92	3/4	3/4		3/4		3/4
1	2,239.42	1	1,882.53	1	1,526.56	1	1,171.29	1	825.79	1	468.68	1	111.48	1	1		1		1
1/4	2,231.99	1/4	1,875.11	1/4	1,519.12	1/4	1,164.12	1/4	818.37	1/4	461.24	1/4	104.03	1/4	1/4		1/4		1/4
1/2	2,224.56	1/2	1,867.70	1/2	1,511.68	1/2	1,156.94	1/2	810.95	1/2	453.80	1/2	96.91	1/2	1/2		1/2		1/2
3/4	2,217.14	3/4	1,860.28	3/4	1,504.24	3/4	1,149.77	3/4	803.53	3/4	446.36	3/4	89.78	3/4	3/4		3/4		3/4
2	2,209.71	2	1,852.87	2	1,496.80	2	1,142.60	2	796.11	2	438.92	2	82.65	2	2		2		2
1/4	2,202.28	1/4	1,845.46	1/4	1,489.36	1/4	1,135.43	1/4	788.69	1/4	431.48	1/4	75.53	1/4	1/4		1/4		1/4
1/2	2,194.86	1/2	1,838.04	1/2	1,481.92	1/2	1,128.25	1/2	781.24	1/2	424.03	1/2	69.34	1/2	1/2		1/2		1/2
3/4	2,187.43	3/4	1,830.63	3/4	1,474.48	3/4	1,121.08	3/4	773.80	3/4	416.59	3/4	63.16	3/4	3/4		3/4		3/4
3	2,180.00	3	1,823.21	3	1,467.04	3	1,113.91	3	766.36	3	409.15	3	56.97	3	3		3		3
1/4	2,172.58	1/4	1,815.80	1/4	1,459.60	1/4	1,106.74	1/4	758.92	1/4	401.71	1/4	50.78	1/4	1/4		1/4		1/4
1/2	2,165.15	1/2	1,808.38	1/2	1,452.16	1/2	1,099.56	1/2	751.48	1/2	394.27	1/2	45.85	1/2	1/2		1/2		1/2
3/4	2,157.73	3/4	1,800.97	3/4	1,444.72	3/4	1,092.39	3/4	744.04	3/4	386.82	3/4	40.93	3/4	3/4		3/4		3/4
4	2,150.30	4	1,793.56	4	1,437.27	4	1,085.22	4	736.59	4	379.38	4	36.00	4	4		4		4
1/4	2,142.87	1/4	1,786.14	1/4	1,429.83	1/4	1,078.05	1/4	729.15	1/4	371.94	1/4	31.07	1/4	1/4		1/4		1/4
1/2	2,135.43	1/2	1,778.73	1/2	1,422.39	1/2	1,070.89	1/2	721.71	1/2	364.50	1/2	27.40	1/2	1/2		1/2		1/2
3/4	2,127.99	3/4	1,771.31	3/4	1,414.95	3/4	1,063.73	3/4	714.27	3/4	357.06	3/4	23.73	3/4	3/4		3/4		3/4
5	2,120.55	5	1,763.90	5	1,407.51	5	1,056.57	5	706.83	5	349.61	5	20.07	5	5		5		5
1/4	2,113.11	1/4	1,756.48	1/4	1,400.07	1/4	1,049.41	1/4	699.38	1/4	342.17	1/4	16.40	1/4	1/4		1/4		1/4
1/2	2,105.67	1/2	1,749.07	1/2	1,392.63	1/2	1,042.25	1/2	691.94	1/2	334.73	1/2		1/2	1/2		1/2		1/2
3/4	2,098.23	3/4	1,741.66	3/4	1,385.19	3/4	1,035.09	3/4	684.50	3/4	327.29	3/4		3/4	3/4		3/4		3/4
6	2,090.79	6	1,734.24	6	1,377.75	6	1,027.93	6	677.06	6	319.85	6		6	6		6		6
1/4	2,083.35	1/4	1,726.83	1/4	1,370.31	1/4	1,020.78	1/4	669.62	1/4	312.41	1/4		1/4	1/4		1/4		1/4
1/2	2,075.91	1/2	1,719.41	1/2	1,362.87	1/2	1,013.62	1/2	662.17	1/2	304.96	1/2		1/2	1/2		1/2		1/2
3/4	2,068.47	3/4	1,712.00	3/4	1,355.43	3/4	1,006.47	3/4	654.73	3/4	297.52	3/4		3/4	3/4		3/4		3/4
7	2,061.02	7	1,704.58	7	1,347.99	7	999.31	7	647.29	7	290.08	7		7	7		7		7
1/4	2,053.58	1/4	1,697.17	1/4	1,340.55	1/4	992.16	1/4	639.85	1/4	282.64	1/4		1/4	1/4		1/4		1/4
1/2	2,046.14	1/2	1,689.76	1/2	1,333.11	1/2	985.01	1/2	632.41	1/2	275.20	1/2		1/2	1/2		1/2		1/2
3/4	2,038.70	3/4	1,682.34	3/4	1,325.67	3/4	977.85	3/4	624.96	3/4	267.75	3/4		3/4	3/4		3/4		3/4
8	2,031.26	8	1,674.93	8	1,318.22	8	970.70	8	617.52	8	260.31	8		8	8		8		8
1/4	2,023.82	1/4	1,667.51	1/4	1,310.78	1/4	963.55	1/4	610.08	1/4	252.87	1/4		1/4	1/4		1/4		1/4
1/2	2,016.38	1/2	1,660.10	1/2	1,303.34	1/2	956.40	1/2	602.64	1/2	245.43	1/2		1/2	1/2		1/2		1/2
3/4	2,008.94	3/4	1,652.68	3/4	1,295.90	3/4	949.25	3/4	595.20	3/4	237.99	3/4		3/4	3/4		3/4		3/4
9	2,001.50	9	1,645.27	9	1,288.46	9	942.10	9	587.76	9	230.54	9		9	9		9		9
1/4	1,994.06	1/4	1,637.86	1/4	1,281.02	1/4	934.95	1/4	580.31	1/4	223.10	1/4		1/4	1/4		1/4		1/4
1/2	1,986.62	1/2	1,630.44	1/2	1,273.58	1/2	927.80	1/2	572.87	1/2	215.66	1/2		1/2	1/2		1/2		1/2
3/4	1,979.18	3/4	1,623.03	3/4	1,266.14	3/4	920.64	3/4	565.43	3/4	208.22	3/4		3/4	3/4		3/4		3/4
10	1,971.74	10	1,615.61	10	1,258.70	10	913.49	10	557.99	10	200.78	10		10	10		10		10
1/4	1,964.30	1/4	1,608.20	1/4	1,251.26	1/4	906.34	1/4	550.55	1/4	193.33	1/4		1/4	1/4		1/4		1/4
1/2	1,956.85	1/2	1,600.78	1/2	1,243.82	1/2	899.19	1/2	543.10	1/2	185.89	1/2		1/2	1/2		1/2		1/2
3/4	1,949.41	3/4	1,593.37	3/4	1,236.38	3/4	892.04	3/4	535.66	3/4	178.45	3/4		3/4	3/4		3/4		3/4
11	1,941.97	11	1,585.95	11	1,228.94	11	884.89	11	528.22	11	171.01	11		11	11		11		11
1/4	1,934.53	1/4	1,578.54	1/4	1,221.50	1/4	877.74	1/4	520.78	1/4	163.57	1/4		1/4	1/4		1/4		1/4
1/2	1,927.09	1/2	1,571.13	1/2	1,214.32	1/2	870.32	1/2	513.34	1/2	156.13	1/2		1/2	1/2		1/2		1/2
3/4	1,919.65	3/4	1,563.71	3/4	1,207.15	3/4	862.89	3/4	505.89	3/4	148.68	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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



BARGE "KIRBY 28179"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN	
0	2,295.75	0	1,937.89	0	1,580.02	0	1,222.16	0	864.56	0	506.82	0	148.96	0		0		0	
1/4	2,288.29	1/4	1,930.43	1/4	1,572.57	1/4	1,214.70	1/4	857.11	1/4	499.36	1/4	141.51	1/4		1/4		1/4	
1/2	2,280.84	1/2	1,922.97	1/2	1,565.11	1/2	1,207.25	1/2	849.67	1/2	491.91	1/2	134.05	1/2		1/2		1/2	
3/4	2,273.38	3/4	1,915.52	3/4	1,557.66	3/4	1,199.79	3/4	842.22	3/4	484.45	3/4	126.60	3/4		3/4		3/4	
1	2,265.93	1	1,908.06	1	1,550.20	1	1,192.34	1	834.78	1	477.00	1	119.14	1		1		1	
1/4	2,258.47	1/4	1,900.61	1/4	1,542.74	1/4	1,184.88	1/4	827.34	1/4	469.54	1/4	111.69	1/4		1/4		1/4	
1/2	2,251.02	1/2	1,893.15	1/2	1,535.29	1/2	1,177.42	1/2	819.89	1/2	462.09	1/2	104.23	1/2		1/2		1/2	
3/4	2,243.56	3/4	1,885.70	3/4	1,527.83	3/4	1,169.97	3/4	812.45	3/4	454.63	3/4	97.09	3/4		3/4		3/4	
2	2,236.11	2	1,878.24	2	1,520.38	2	1,162.51	2	805.01	2	447.18	2	89.95	2		2		2	
1/4	2,228.65	1/4	1,870.79	1/4	1,512.92	1/4	1,155.06	1/4	797.56	1/4	439.72	1/4	82.81	1/4		1/4		1/4	
1/2	2,221.19	1/2	1,863.33	1/2	1,505.47	1/2	1,147.60	1/2	790.12	1/2	432.26	1/2	75.67	1/2		1/2		1/2	
3/4	2,213.74	3/4	1,855.88	3/4	1,498.01	3/4	1,140.15	3/4	782.66	3/4	424.81	3/4	69.47	3/4		3/4		3/4	
3	2,206.28	3	1,848.42	3	1,490.56	3	1,132.69	3	775.21	3	417.35	3	63.28	3		3		3	
1/4	2,198.83	1/4	1,840.96	1/4	1,483.10	1/4	1,125.24	1/4	767.75	1/4	409.90	1/4	57.08	1/4		1/4		1/4	
1/2	2,191.37	1/2	1,833.51	1/2	1,475.64	1/2	1,117.78	1/2	760.30	1/2	402.44	1/2	50.88	1/2		1/2		1/2	
3/4	2,183.92	3/4	1,826.05	3/4	1,468.19	3/4	1,110.33	3/4	752.84	3/4	394.99	3/4	45.93	3/4		3/4		3/4	
4	2,176.46	4	1,818.60	4	1,460.73	4	1,102.87	4	745.39	4	387.53	4	40.99	4		4		4	
1/4	2,169.01	1/4	1,811.14	1/4	1,453.28	1/4	1,095.41	1/4	737.93	1/4	380.08	1/4	36.05	1/4		1/4		1/4	
1/2	2,161.55	1/2	1,803.69	1/2	1,445.82	1/2	1,087.96	1/2	730.48	1/2	372.62	1/2	31.11	1/2		1/2		1/2	
3/4	2,154.10	3/4	1,796.23	3/4	1,438.37	3/4	1,080.50	3/4	723.02	3/4	365.17	3/4	27.43	3/4		3/4		3/4	
5	2,146.64	5	1,788.78	5	1,430.91	5	1,073.05	5	715.57	5	357.71	5	23.76	5		5		5	
1/4	2,139.18	1/4	1,781.32	1/4	1,423.46	1/4	1,065.59	1/4	708.11	1/4	350.26	1/4	20.08	1/4		1/4		1/4	
1/2	2,131.73	1/2	1,773.86	1/2	1,416.00	1/2	1,058.14	1/2	700.66	1/2	342.80	1/2	16.40	1/2		1/2		1/2	
3/4	2,124.27	3/4	1,766.41	3/4	1,408.55	3/4	1,050.68	3/4	693.20	3/4	335.35	3/4		3/4		3/4		3/4	
6	2,116.82	6	1,758.95	6	1,401.09	6	1,043.23	6	685.75	6	327.89	6		6		6		6	
1/4	2,109.36	1/4	1,751.50	1/4	1,393.63	1/4	1,035.77	1/4	678.29	1/4	320.44	1/4		1/4		1/4		1/4	
1/2	2,101.91	1/2	1,744.04	1/2	1,386.18	1/2	1,028.31	1/2	670.83	1/2	312.98	1/2		1/2		1/2		1/2	
3/4	2,094.45	3/4	1,736.59	3/4	1,378.72	3/4	1,020.87	3/4	663.38	3/4	305.52	3/4		3/4		3/4		3/4	
7	2,087.00	7	1,729.13	7	1,371.27	7	1,013.43	7	655.92	7	298.07	7		7		7		7	
1/4	2,079.54	1/4	1,721.68	1/4	1,363.81	1/4	1,005.98	1/4	648.47	1/4	290.61	1/4		1/4		1/4		1/4	
1/2	2,072.08	1/2	1,714.22	1/2	1,356.36	1/2	998.54	1/2	641.01	1/2	283.16	1/2		1/2		1/2		1/2	
3/4	2,064.63	3/4	1,706.77	3/4	1,348.90	3/4	991.10	3/4	633.56	3/4	275.70	3/4		3/4		3/4		3/4	
8	2,057.17	8	1,699.31	8	1,341.45	8	983.65	8	626.10	8	268.25	8		8		8		8	
1/4	2,049.72	1/4	1,691.85	1/4	1,333.99	1/4	976.21	1/4	618.65	1/4	260.79	1/4		1/4		1/4		1/4	
1/2	2,042.26	1/2	1,684.40	1/2	1,326.53	1/2	968.77	1/2	611.19	1/2	253.34	1/2		1/2		1/2		1/2	
3/4	2,034.81	3/4	1,676.94	3/4	1,319.08	3/4	961.32	3/4	603.74	3/4	245.88	3/4		3/4		3/4		3/4	
9	2,027.35	9	1,669.49	9	1,311.62	9	953.88	9	596.28	9	238.43	9		9		9		9	
1/4	2,019.90	1/4	1,662.03	1/4	1,304.17	1/4	946.43	1/4	588.83	1/4	230.97	1/4		1/4		1/4		1/4	
1/2	2,012.44	1/2	1,654.58	1/2	1,296.71	1/2	938.99	1/2	581.37	1/2	223.52	1/2		1/2		1/2		1/2	
3/4	2,004.99	3/4	1,647.12	3/4	1,289.26	3/4	931.55	3/4	573.92	3/4	216.06	3/4		3/4		3/4		3/4	
10	1,997.53	10	1,639.67	10	1,281.80	10	924.10	10	566.46	10	208.61	10		10		10		10	
1/4	1,990.07	1/4	1,632.21	1/4	1,274.35	1/4	916.66	1/4	559.01	1/4	201.15	1/4		1/4		1/4		1/4	
1/2	1,982.62	1/2	1,624.75	1/2	1,266.89	1/2	909.22	1/2	551.55	1/2	193.70	1/2		1/2		1/2		1/2	
3/4	1,975.16	3/4	1,617.30	3/4	1,259.44	3/4	901.77	3/4	544.09	3/4	186.24	3/4		3/4		3/4		3/4	
11	1,967.71	11	1,609.84	11	1,251.98	11	894.33	11	536.64	11	178.78	11		11		11		11	
1/4	1,960.25	1/4	1,602.39	1/4	1,244.52	1/4	886.89	1/4	529.18	1/4	171.33	1/4		1/4		1/4		1/4	
1/2	1,952.80	1/2	1,594.93	1/2	1,237.07	1/2	879.44	1/2	521.73	1/2	163.87	1/2		1/2		1/2		1/2	
3/4	1,945.34	3/4	1,587.48	3/4	1,229.61	3/4	872.00	3/4	514.27	3/4	156.42	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 11/22/2011 CL - SW
CALCULATED: 11/22/2011 CL
PRINTED: 11/22/2011 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 11/2011

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