



BARGE "KIRBY 29105"

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	01-3/8	- 01-3/8	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	01-1/8	- 01-1/8	01-3/8	- 01-3/8	01-3/4	- 01-3/4
2 PORT	00-3/8	- 00-3/8	00-3/4	- 00-3/4	01-1/8	- 01-1/8	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	01-1/8	- 01-1/8	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"

February 22, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
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<http://www.pmacorp.net>



BARGE "KIRBY 29105"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
0		0		0		0		0	4,640.54	0	4,302.00	0	3,946.94	0	3,575.74	0	3,199.27	0	2,821.18
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,633.65	1/4	4,294.76	1/4	3,939.35	1/4	3,567.90	1/4	3,191.39	1/4	2,813.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,959.37	1/2	4,626.75	1/2	4,287.51	1/2	3,931.77	1/2	3,560.06	1/2	3,183.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,953.99	3/4	4,619.86	3/4	4,280.27	3/4	3,924.18	3/4	3,552.21	3/4	3,175.64
1		1		1		1		1	4,948.61	1	4,612.97	1	4,273.03	1	3,916.60	1	3,544.37	1	3,178.76
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,941.93	1/4	4,606.04	1/4	4,265.76	1/4	3,908.98	1/4	3,536.53	1/4	3,159.89
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,935.25	1/2	4,599.12	1/2	4,258.49	1/2	3,901.37	1/2	3,528.69	1/2	3,152.01
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,928.57	3/4	4,592.20	3/4	4,251.23	3/4	3,893.75	3/4	3,520.85	3/4	3,144.13
2		2		2		2		2	4,921.89	2	4,585.28	2	4,243.96	2	3,886.13	2	3,513.00	2	3,138.26
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,914.28	1/4	4,578.33	1/4	4,236.67	1/4	3,878.50	1/4	3,505.16	1/4	3,128.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,906.67	1/2	4,571.37	1/2	4,229.37	1/2	3,870.86	1/2	3,497.32	1/2	3,120.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,899.06	3/4	4,564.42	3/4	4,222.08	3/4	3,863.22	3/4	3,489.48	3/4	3,112.63
3		3		3		3		3	4,891.44	3	4,557.47	3	4,214.78	3	3,855.58	3	3,481.64	3	3,104.75
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,883.60	1/4	4,550.49	1/4	4,207.46	1/4	3,847.91	1/4	3,473.79	1/4	3,096.87
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,875.76	1/2	4,543.51	1/2	4,200.13	1/2	3,840.24	1/2	3,465.95	1/2	3,089.00
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,867.92	3/4	4,536.53	3/4	4,192.81	3/4	3,832.57	3/4	3,458.11	3/4	3,081.12
4		4		4		4		4	4,860.08	4	4,529.55	4	4,185.48	4	3,824.91	4	3,450.27	4	3,073.24
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,852.67	1/4	4,522.54	1/4	4,178.13	1/4	3,817.21	1/4	3,442.43	1/4	3,065.36
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,845.26	1/2	4,515.53	1/2	4,170.78	1/2	3,809.51	1/2	3,434.58	1/2	3,057.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,837.85	3/4	4,508.52	3/4	4,163.42	3/4	3,801.82	3/4	3,426.74	3/4	3,049.61
5		5		5		5		5	4,830.44	5	4,501.51	5	4,156.07	5	3,794.12	5	3,418.90	5	3,041.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,823.75	1/4	4,494.47	1/4	4,148.69	1/4	3,786.39	1/4	3,411.06	1/4	3,033.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,817.05	1/2	4,487.44	1/2	4,141.31	1/2	3,778.67	1/2	3,403.22	1/2	3,025.98
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,810.36	3/4	4,480.40	3/4	4,133.92	3/4	3,770.94	3/4	3,395.38	3/4	3,018.10
6		6		6		6		6	4,803.66	6	4,473.36	6	4,126.54	6	3,763.22	6	3,387.53	6	3,010.23
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,796.94	1/4	4,466.29	1/4	4,119.13	1/4	3,755.46	1/4	3,379.69	1/4	3,002.35
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,790.22	1/2	4,459.23	1/2	4,111.72	1/2	3,747.71	1/2	3,371.85	1/2	2,994.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,783.49	3/4	4,452.16	3/4	4,104.31	3/4	3,739.95	3/4	3,364.01	3/4	2,986.60
7		7		7		7		7	4,776.77	7	4,445.09	7	4,096.90	7	3,732.20	7	3,356.17	7	2,978.72
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,770.02	1/4	4,437.99	1/4	4,089.46	1/4	3,724.41	1/4	3,348.32	1/4	2,970.84
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,763.26	1/2	4,430.90	1/2	4,082.02	1/2	3,716.63	1/2	3,340.48	1/2	2,962.97
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,756.51	3/4	4,423.80	3/4	4,074.58	3/4	3,708.85	3/4	3,332.64	3/4	2,955.09
8		8		8		8		8	4,749.76	8	4,416.71	8	4,067.14	8	3,701.06	8	3,324.80	8	2,947.21
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,742.97	1/4	4,409.58	1/4	4,059.67	1/4	3,693.25	1/4	3,316.96	1/4	2,939.34
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,736.19	1/2	4,402.45	1/2	4,052.20	1/2	3,685.44	1/2	3,309.11	1/2	2,931.46
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,729.41	3/4	4,395.33	3/4	4,044.73	3/4	3,677.62	3/4	3,301.27	3/4	2,923.58
9		9		9		9		9	4,722.63	9	4,388.20	9	4,037.27	9	3,669.81	9	3,293.43	9	2,915.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,715.82	1/4	4,381.05	1/4	4,029.77	1/4	3,661.98	1/4	3,285.59	1/4	2,907.83
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,709.01	1/2	4,373.89	1/2	4,022.27	1/2	3,654.14	1/2	3,277.75	1/2	2,899.95
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,702.19	3/4	4,366.74	3/4	4,014.77	3/4	3,646.31	3/4	3,269.90	3/4	2,892.08
10		10		10		10		10	4,695.38	10	4,359.59	10	4,007.27	10	3,638.47	10	3,262.06	10	2,884.20
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,688.54	1/4	4,352.40	1/4	3,999.74	1/4	3,630.63	1/4	3,254.22	1/4	2,876.32
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,681.70	1/2	4,345.22	1/2	3,992.22	1/2	3,622.79	1/2	3,246.38	1/2	2,868.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,674.86	3/4	4,338.03	3/4	3,984.69	3/4	3,614.95	3/4	3,238.54	3/4	2,860.57
11		11		11		11		11	4,668.02	11	4,330.85	11	3,977.16	11	3,607.11	11	3,230.70	11	2,852.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,661.15	1/4	4,323.64	1/4	3,969.61	1/4	3,599.26	1/4	3,222.84	1/4	2,844.81
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,654.28	1/2	4,316.42	1/2	3,962.05	1/2	3,591.42	1/2	3,214.98	1/2	2,836.94
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,647.41	3/4	4,309.21	3/4	3,954.49	3/4	3,583.58	3/4	3,207.13	3/4	2,829.06

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'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
& ANALYSIS, INC.
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**BARGE "KIRBY 29105"****1 PORT
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	2,443.10	0	2,065.01	0	1,686.92	0	1,310.08	0	932.91	0	554.84	0	202.75	0		0		0	
1/4	2,435.22	1/4	2,057.13	1/4	1,679.05	1/4	1,302.25	1/4	925.04	1/4	546.97	1/4	196.12	1/4		1/4		1/4	
1/2	2,427.34	1/2	2,049.26	1/2	1,671.17	1/2	1,294.43	1/2	917.16	1/2	539.10	1/2	189.49	1/2		1/2		1/2	
3/4	2,419.47	3/4	2,041.38	3/4	1,663.29	3/4	1,286.60	3/4	909.28	3/4	531.24	3/4	182.86	3/4		3/4		3/4	
1	2,411.59	1	2,033.50	1	1,655.42	1	1,278.77	1	901.41	1	523.37	1	176.22	1		1		1	
1/4	2,403.71	1/4	2,025.63	1/4	1,647.54	1/4	1,270.94	1/4	893.53	1/4	515.55	1/4	169.70	1/4		1/4		1/4	
1/2	2,395.84	1/2	2,017.75	1/2	1,639.66	1/2	1,263.12	1/2	885.65	1/2	507.73	1/2	163.18	1/2		1/2		1/2	
3/4	2,387.96	3/4	2,009.87	3/4	1,631.79	3/4	1,255.29	3/4	877.78	3/4	499.92	3/4	156.66	3/4		3/4		3/4	
2	2,380.08	2	2,002.00	2	1,623.91	2	1,247.46	2	869.90	2	492.10	2	150.14	2		2		2	
1/4	2,372.21	1/4	1,994.12	1/4	1,616.03	1/4	1,239.63	1/4	862.02	1/4	484.37	1/4	143.74	1/4		1/4		1/4	
1/2	2,364.33	1/2	1,986.24	1/2	1,608.16	1/2	1,231.81	1/2	854.15	1/2	476.65	1/2	137.34	1/2		1/2		1/2	
3/4	2,356.45	3/4	1,978.37	3/4	1,600.28	3/4	1,223.98	3/4	846.27	3/4	468.92	3/4	130.93	3/4		3/4		3/4	
3	2,348.58	3	1,970.49	3	1,592.40	3	1,216.15	3	838.39	3	461.19	3	124.53	3		3		3	
1/4	2,340.70	1/4	1,962.61	1/4	1,584.53	1/4	1,208.32	1/4	830.52	1/4	453.58	1/4	118.24	1/4		1/4		1/4	
1/2	2,332.82	1/2	1,954.74	1/2	1,576.65	1/2	1,200.50	1/2	822.64	1/2	445.96	1/2	111.96	1/2		1/2		1/2	
3/4	2,324.95	3/4	1,946.86	3/4	1,568.77	3/4	1,192.67	3/4	814.76	3/4	438.34	3/4	105.68	3/4		3/4		3/4	
4	2,317.07	4	1,938.98	4	1,560.90	4	1,184.84	4	806.89	4	430.73	4	99.40	4		4		4	
1/4	2,309.19	1/4	1,931.11	1/4	1,553.03	1/4	1,177.00	1/4	799.01	1/4	423.22	1/4	93.24	1/4		1/4		1/4	
1/2	2,301.32	1/2	1,923.23	1/2	1,545.16	1/2	1,169.15	1/2	791.14	1/2	415.71	1/2	87.09	1/2		1/2		1/2	
3/4	2,293.44	3/4	1,915.35	3/4	1,537.30	3/4	1,161.30	3/4	783.26	3/4	408.20	3/4	80.93	3/4		3/4		3/4	
5	2,285.56	5	1,907.48	5	1,529.43	5	1,153.46	5	775.38	5	400.70	5	74.78	5		5		5	
1/4	2,277.68	1/4	1,899.60	1/4	1,521.59	1/4	1,145.58	1/4	767.51	1/4	393.30	1/4	68.77	1/4		1/4		1/4	
1/2	2,269.81	1/2	1,891.72	1/2	1,513.74	1/2	1,137.71	1/2	759.63	1/2	385.90	1/2	62.75	1/2		1/2		1/2	
3/4	2,261.93	3/4	1,883.84	3/4	1,505.89	3/4	1,129.83	3/4	751.75	3/4	378.50	3/4	56.74	3/4		3/4		3/4	
6	2,254.05	6	1,875.97	6	1,498.04	6	1,121.95	6	743.88	6	371.11	6	50.73	6		6		6	
1/4	2,246.18	1/4	1,868.09	1/4	1,490.20	1/4	1,114.08	1/4	736.00	1/4	363.82	1/4	45.31	1/4		1/4		1/4	
1/2	2,238.30	1/2	1,860.21	1/2	1,482.36	1/2	1,106.20	1/2	728.12	1/2	356.53	1/2	39.89	1/2		1/2		1/2	
3/4	2,230.42	3/4	1,852.34	3/4	1,474.52	3/4	1,098.32	3/4	720.25	3/4	349.24	3/4	34.47	3/4		3/4		3/4	
7	2,222.55	7	1,844.46	7	1,466.67	7	1,090.45	7	712.37	7	341.95	7	29.05	7		7		7	
1/4	2,214.67	1/4	1,836.58	1/4	1,458.84	1/4	1,082.57	1/4	704.49	1/4	334.77	1/4	25.09	1/4		1/4		1/4	
1/2	2,206.79	1/2	1,828.71	1/2	1,451.00	1/2	1,074.69	1/2	696.62	1/2	327.59	1/2	21.12	1/2		1/2		1/2	
3/4	2,198.92	3/4	1,820.83	3/4	1,443.17	3/4	1,066.82	3/4	688.74	3/4	320.42	3/4	17.16	3/4		3/4		3/4	
8	2,191.04	8	1,812.95	8	1,435.34	8	1,058.94	8	680.86	8	313.24	8	13.19	8		8		8	
1/4	2,183.16	1/4	1,805.08	1/4	1,427.50	1/4	1,051.06	1/4	672.99	1/4	306.17	1/4		1/4		1/4		1/4	
1/2	2,175.29	1/2	1,797.20	1/2	1,419.67	1/2	1,043.19	1/2	665.11	1/2	299.10	1/2		1/2		1/2		1/2	
3/4	2,167.41	3/4	1,789.32	3/4	1,411.84	3/4	1,035.31	3/4	657.23	3/4	292.03	3/4		3/4		3/4		3/4	
9	2,159.53	9	1,781.45	9	1,404.01	9	1,027.43	9	649.36	9	284.96	9		9		9		9	
1/4	2,151.66	1/4	1,773.57	1/4	1,396.18	1/4	1,019.56	1/4	641.48	1/4	278.00	1/4		1/4		1/4		1/4	
1/2	2,143.78	1/2	1,765.69	1/2	1,388.35	1/2	1,011.68	1/2	633.60	1/2	271.04	1/2		1/2		1/2		1/2	
3/4	2,135.90	3/4	1,757.82	3/4	1,380.53	3/4	1,003.80	3/4	625.73	3/4	264.08	3/4		3/4		3/4		3/4	
10	2,128.03	10	1,749.94	10	1,372.70	10	995.93	10	617.85	10	257.12	10		10		10		10	
1/4	2,120.15	1/4	1,742.06	1/4	1,364.87	1/4	988.05	1/4	609.97	1/4	250.27	1/4		1/4		1/4		1/4	
1/2	2,112.27	1/2	1,734.19	1/2	1,357.04	1/2	980.17	1/2	602.10	1/2	243.42	1/2		1/2		1/2		1/2	
3/4	2,104.40	3/4	1,726.31	3/4	1,349.22	3/4	972.30	3/4	594.22	3/4	236.57	3/4		3/4		3/4		3/4	
11	2,096.52	11	1,718.43	11	1,341.39	11	964.42	11	586.34	11	229.72	11		11		11		11	
1/4	2,088.64	1/4	1,710.56	1/4	1,333.56	1/4	956.54	1/4	578.47	1/4	222.97	1/4		1/4		1/4		1/4	
1/2	2,080.76	1/2	1,702.68	1/2	1,325.74	1/2	948.67	1/2	570.59	1/2	216.23	1/2		1/2		1/2		1/2	
3/4	2,072.89	3/4	1,694.80	3/4	1,317.91	3/4	940.79	3/4	562.71	3/4	209.49	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/21/2013 CL - SW
CALCULATED: 02/22/2013 CL
PRINTED: 02/22/2013 CLCANCELS AND SUPERCEDES
ALL PRIOR TO 02/2013PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29105"

1 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

Table with 18 columns (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.) and multiple rows of capacity data.

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'-06" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT & ANALYSIS, INC.
P.O. Box 2092
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BARGE "KIRBY 29105"

1 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	2,444.59	0	2,066.55	0	1,688.51	0	1,310.46	0	932.68	0	554.77	0	202.73	0		0		0	
1/4	2,436.72	1/4	2,058.67	1/4	1,680.63	1/4	1,302.59	1/4	924.82	1/4	546.91	1/4	196.10	1/4	1/4	1/4		1/4	1/4
1/2	2,428.84	1/2	2,050.80	1/2	1,672.76	1/2	1,294.71	1/2	916.95	1/2	539.04	1/2	189.47	1/2	1/2	1/2		1/2	1/2
3/4	2,420.97	3/4	2,042.92	3/4	1,664.88	3/4	1,286.84	3/4	909.09	3/4	531.18	3/4	182.83	3/4	3/4	3/4		3/4	3/4
1	2,413.09	1	2,035.05	1	1,657.00	1	1,278.96	1	901.23	1	523.31	1	176.20	1	1	1		1	1
1/4	2,405.21	1/4	2,027.17	1/4	1,649.13	1/4	1,271.08	1/4	893.36	1/4	515.49	1/4	169.68	1/4	1/4	1/4		1/4	1/4
1/2	2,397.34	1/2	2,019.30	1/2	1,641.25	1/2	1,263.21	1/2	885.50	1/2	507.68	1/2	163.17	1/2	1/2	1/2		1/2	1/2
3/4	2,389.46	3/4	2,011.42	3/4	1,633.38	3/4	1,255.33	3/4	877.64	3/4	499.86	3/4	156.65	3/4	3/4	3/4		3/4	3/4
2	2,381.59	2	2,003.54	2	1,625.50	2	1,247.46	2	869.77	2	492.04	2	150.13	2	2	2		2	2
1/4	2,373.71	1/4	1,995.67	1/4	1,617.62	1/4	1,239.58	1/4	861.90	1/4	484.32	1/4	143.72	1/4	1/4	1/4		1/4	1/4
1/2	2,365.83	1/2	1,987.79	1/2	1,609.75	1/2	1,231.71	1/2	854.04	1/2	476.59	1/2	137.32	1/2	1/2	1/2		1/2	1/2
3/4	2,357.96	3/4	1,979.92	3/4	1,601.87	3/4	1,223.83	3/4	846.17	3/4	468.87	3/4	130.92	3/4	3/4	3/4		3/4	3/4
3	2,350.08	3	1,972.04	3	1,594.00	3	1,215.95	3	838.30	3	461.14	3	124.51	3	3	3		3	3
1/4	2,342.21	1/4	1,964.16	1/4	1,586.12	1/4	1,208.08	1/4	830.42	1/4	453.52	1/4	118.23	1/4	1/4	1/4		1/4	1/4
1/2	2,334.33	1/2	1,956.29	1/2	1,578.24	1/2	1,200.20	1/2	822.55	1/2	445.91	1/2	111.95	1/2	1/2	1/2		1/2	1/2
3/4	2,326.46	3/4	1,948.41	3/4	1,570.37	3/4	1,192.33	3/4	814.67	3/4	438.29	3/4	105.67	3/4	3/4	3/4		3/4	3/4
4	2,318.58	4	1,940.54	4	1,562.49	4	1,184.45	4	806.80	4	430.68	4	99.38	4	4	4		4	4
1/4	2,310.70	1/4	1,932.66	1/4	1,554.62	1/4	1,176.57	1/4	798.92	1/4	423.17	1/4	93.23	1/4	1/4	1/4		1/4	1/4
1/2	2,302.83	1/2	1,924.78	1/2	1,546.74	1/2	1,168.70	1/2	791.04	1/2	415.66	1/2	87.08	1/2	1/2	1/2		1/2	1/2
3/4	2,294.95	3/4	1,916.91	3/4	1,538.87	3/4	1,160.82	3/4	783.17	3/4	408.16	3/4	80.92	3/4	3/4	3/4		3/4	3/4
5	2,287.08	5	1,909.03	5	1,530.99	5	1,152.95	5	775.29	5	400.65	5	74.77	5	5	5		5	5
1/4	2,279.20	1/4	1,901.16	1/4	1,523.11	1/4	1,145.07	1/4	767.42	1/4	393.25	1/4	68.76	1/4	1/4	1/4		1/4	1/4
1/2	2,271.32	1/2	1,893.28	1/2	1,515.24	1/2	1,137.19	1/2	759.54	1/2	385.86	1/2	62.75	1/2	1/2	1/2		1/2	1/2
3/4	2,263.45	3/4	1,885.41	3/4	1,507.36	3/4	1,129.32	3/4	751.67	3/4	378.46	3/4	56.74	3/4	3/4	3/4		3/4	3/4
6	2,255.57	6	1,877.53	6	1,499.49	6	1,121.44	6	743.79	6	371.06	6	50.72	6	6	6		6	6
1/4	2,247.70	1/4	1,869.65	1/4	1,491.61	1/4	1,113.57	1/4	735.91	1/4	363.78	1/4	45.31	1/4	1/4	1/4		1/4	1/4
1/2	2,239.82	1/2	1,861.78	1/2	1,483.73	1/2	1,105.70	1/2	728.04	1/2	356.49	1/2	39.89	1/2	1/2	1/2		1/2	1/2
3/4	2,231.94	3/4	1,853.90	3/4	1,475.86	3/4	1,097.83	3/4	720.16	3/4	349.20	3/4	34.47	3/4	3/4	3/4		3/4	3/4
7	2,224.07	7	1,846.03	7	1,467.98	7	1,089.96	7	712.29	7	341.91	7	29.05	7	7	7		7	7
1/4	2,216.19	1/4	1,838.15	1/4	1,460.11	1/4	1,082.09	1/4	704.41	1/4	334.73	1/4	25.09	1/4	1/4	1/4		1/4	1/4
1/2	2,208.32	1/2	1,830.27	1/2	1,452.23	1/2	1,074.23	1/2	696.54	1/2	327.56	1/2	21.12	1/2	1/2	1/2		1/2	1/2
3/4	2,200.44	3/4	1,822.40	3/4	1,444.35	3/4	1,066.37	3/4	688.66	3/4	320.38	3/4	17.16	3/4	3/4	3/4		3/4	3/4
8	2,192.57	8	1,814.52	8	1,436.48	8	1,058.50	8	680.78	8	313.20	8	13.19	8	8	8		8	8
1/4	2,184.69	1/4	1,806.65	1/4	1,428.60	1/4	1,050.64	1/4	672.91	1/4	306.13	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,176.81	1/2	1,798.77	1/2	1,420.73	1/2	1,042.78	1/2	665.03	1/2	299.06	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,168.94	3/4	1,790.89	3/4	1,412.85	3/4	1,034.91	3/4	657.16	3/4	291.99	3/4		3/4	3/4	3/4		3/4	3/4
9	2,161.06	9	1,783.02	9	1,404.98	9	1,027.05	9	649.28	9	284.93	9		9	9	9		9	9
1/4	2,153.19	1/4	1,775.14	1/4	1,397.10	1/4	1,019.18	1/4	641.41	1/4	277.97	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,145.31	1/2	1,767.27	1/2	1,389.22	1/2	1,011.32	1/2	633.53	1/2	271.01	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,137.43	3/4	1,759.39	3/4	1,381.35	3/4	1,003.46	3/4	625.65	3/4	264.05	3/4		3/4	3/4	3/4		3/4	3/4
10	2,129.56	10	1,751.51	10	1,373.47	10	995.59	10	617.78	10	257.09	10		10	10	10		10	10
1/4	2,121.68	1/4	1,743.64	1/4	1,365.60	1/4	987.73	1/4	609.90	1/4	250.24	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,113.81	1/2	1,735.76	1/2	1,357.72	1/2	979.86	1/2	602.03	1/2	243.39	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,105.93	3/4	1,727.89	3/4	1,349.84	3/4	972.00	3/4	594.15	3/4	236.54	3/4		3/4	3/4	3/4		3/4	3/4
11	2,098.05	11	1,720.01	11	1,341.97	11	964.14	11	586.28	11	229.69	11		11	11	11		11	11
1/4	2,090.18	1/4	1,712.14	1/4	1,334.09	1/4	956.27	1/4	578.40	1/4	222.95	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,082.30	1/2	1,704.26	1/2	1,326.22	1/2	948.41	1/2	570.52	1/2	216.21	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,074.43	3/4	1,696.38	3/4	1,318.34	3/4	940.55	3/4	562.65	3/4	209.47	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/21/2013 CL - SW
CALCULATED: 02/22/2013 CL
PRINTED: 02/22/2013 CL

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

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2013



BARGE "KIRBY 29105"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/4"

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

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'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "KIRBY 29105"

2 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	2,379.83	0	2,020.84	0	1,661.84	0	1,310.90	0	966.07	0	609.35	0	250.37	0		0		0	
1/4	2,372.35	1/4	2,013.36	1/4	1,654.36	1/4	1,303.71	1/4	958.90	1/4	601.87	1/4	242.89	1/4	1/4	1/4		1/4	1/4
1/2	2,364.88	1/2	2,005.88	1/2	1,646.88	1/2	1,296.51	1/2	951.72	1/2	594.40	1/2	235.41	1/2	1/2	1/2		1/2	1/2
3/4	2,357.40	3/4	1,998.40	3/4	1,639.40	3/4	1,289.31	3/4	944.54	3/4	586.92	3/4	227.93	3/4	3/4	3/4		3/4	3/4
1	2,349.92	1	1,990.92	1	1,631.92	1	1,282.12	1	937.37	1	579.44	1	220.45	1	1	1		1	1
1/4	2,342.44	1/4	1,983.44	1/4	1,624.44	1/4	1,274.92	1/4	930.19	1/4	571.96	1/4	212.97	1/4	1/4	1/4		1/4	1/4
1/2	2,334.96	1/2	1,975.96	1/2	1,616.97	1/2	1,267.73	1/2	922.90	1/2	564.48	1/2	205.50	1/2	1/2	1/2		1/2	1/2
3/4	2,327.48	3/4	1,968.48	3/4	1,609.49	3/4	1,260.53	3/4	915.61	3/4	557.00	3/4	198.02	3/4	3/4	3/4		3/4	3/4
2	2,320.00	2	1,961.00	2	1,602.01	2	1,253.33	2	908.32	2	549.52	2	190.54	2	2	2		2	2
1/4	2,312.52	1/4	1,953.52	1/4	1,594.53	1/4	1,246.14	1/4	901.03	1/4	542.04	1/4	183.07	1/4	1/4	1/4		1/4	1/4
1/2	2,305.04	1/2	1,946.05	1/2	1,587.05	1/2	1,238.94	1/2	893.55	1/2	534.56	1/2	175.60	1/2	1/2	1/2		1/2	1/2
3/4	2,297.56	3/4	1,938.57	3/4	1,579.57	3/4	1,231.75	3/4	886.07	3/4	527.09	3/4	168.13	3/4	3/4	3/4		3/4	3/4
3	2,290.08	3	1,931.09	3	1,572.09	3	1,224.55	3	878.59	3	519.61	3	160.65	3	3	3		3	3
1/4	2,282.60	1/4	1,923.61	1/4	1,564.61	1/4	1,217.35	1/4	871.12	1/4	512.13	1/4	153.18	1/4	1/4	1/4		1/4	1/4
1/2	2,275.13	1/2	1,916.13	1/2	1,557.13	1/2	1,210.16	1/2	863.64	1/2	504.65	1/2	145.72	1/2	1/2	1/2		1/2	1/2
3/4	2,267.65	3/4	1,908.65	3/4	1,549.65	3/4	1,202.97	3/4	856.16	3/4	497.17	3/4	138.27	3/4	3/4	3/4		3/4	3/4
4	2,260.17	4	1,901.17	4	1,542.17	4	1,195.78	4	848.68	4	489.69	4	130.81	4	4	4		4	4
1/4	2,252.69	1/4	1,893.69	1/4	1,534.69	1/4	1,188.59	1/4	841.20	1/4	482.21	1/4	123.35	1/4	1/4	1/4		1/4	1/4
1/2	2,245.21	1/2	1,886.21	1/2	1,527.32	1/2	1,181.40	1/2	833.72	1/2	474.73	1/2	115.91	1/2	1/2	1/2		1/2	1/2
3/4	2,237.73	3/4	1,878.73	3/4	1,519.95	3/4	1,174.22	3/4	826.24	3/4	467.25	3/4	108.47	3/4	3/4	3/4		3/4	3/4
5	2,230.25	5	1,871.25	5	1,512.57	5	1,167.04	5	818.76	5	459.78	5	101.02	5	5	5		5	5
1/4	2,222.77	1/4	1,863.78	1/4	1,505.20	1/4	1,159.85	1/4	811.28	1/4	452.30	1/4	93.58	1/4	1/4	1/4		1/4	1/4
1/2	2,215.29	1/2	1,856.30	1/2	1,498.00	1/2	1,152.67	1/2	803.81	1/2	444.82	1/2	86.17	1/2	1/2	1/2		1/2	1/2
3/4	2,207.81	3/4	1,848.82	3/4	1,490.81	3/4	1,145.49	3/4	796.33	3/4	437.34	3/4	78.76	3/4	3/4	3/4		3/4	3/4
6	2,200.33	6	1,841.34	6	1,483.61	6	1,138.31	6	788.85	6	429.86	6	71.35	6	6	6		6	6
1/4	2,192.86	1/4	1,833.86	1/4	1,476.42	1/4	1,131.13	1/4	781.37	1/4	422.38	1/4	63.94	1/4	1/4	1/4		1/4	1/4
1/2	2,185.38	1/2	1,826.38	1/2	1,469.22	1/2	1,123.95	1/2	773.89	1/2	414.90	1/2	56.99	1/2	1/2	1/2		1/2	1/2
3/4	2,177.90	3/4	1,818.90	3/4	1,462.02	3/4	1,116.77	3/4	766.41	3/4	407.42	3/4	50.04	3/4	3/4	3/4		3/4	3/4
7	2,170.42	7	1,811.42	7	1,454.83	7	1,109.60	7	758.93	7	399.94	7	43.09	7	7	7		7	7
1/4	2,162.94	1/4	1,803.94	1/4	1,447.63	1/4	1,102.42	1/4	751.45	1/4	392.47	1/4	36.14	1/4	1/4	1/4		1/4	1/4
1/2	2,155.46	1/2	1,796.46	1/2	1,440.44	1/2	1,095.25	1/2	743.97	1/2	384.99	1/2	30.84	1/2	1/2	1/2		1/2	1/2
3/4	2,147.98	3/4	1,788.98	3/4	1,433.24	3/4	1,088.07	3/4	736.50	3/4	377.51	3/4	25.55	3/4	3/4	3/4		3/4	3/4
8	2,140.50	8	1,781.51	8	1,426.04	8	1,080.89	8	729.02	8	370.03	8	20.26	8	8	8		8	8
1/4	2,133.02	1/4	1,774.03	1/4	1,418.85	1/4	1,073.72	1/4	721.54	1/4	362.55	1/4	14.96	1/4	1/4	1/4		1/4	1/4
1/2	2,125.54	1/2	1,766.55	1/2	1,411.65	1/2	1,066.54	1/2	714.06	1/2	355.07	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,118.06	3/4	1,759.07	3/4	1,404.45	3/4	1,059.36	3/4	706.58	3/4	347.59	3/4		3/4	3/4	3/4		3/4	3/4
9	2,110.59	9	1,751.59	9	1,397.26	9	1,052.19	9	699.10	9	340.11	9		9	9	9		9	9
1/4	2,103.11	1/4	1,744.11	1/4	1,390.06	1/4	1,045.01	1/4	691.62	1/4	332.63	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,095.63	1/2	1,736.63	1/2	1,382.87	1/2	1,037.84	1/2	684.14	1/2	325.16	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,088.15	3/4	1,729.15	3/4	1,375.67	3/4	1,030.66	3/4	676.66	3/4	317.68	3/4		3/4	3/4	3/4		3/4	3/4
10	2,080.67	10	1,721.67	10	1,368.47	10	1,023.48	10	669.19	10	310.20	10		10	10	10		10	10
1/4	2,073.19	1/4	1,714.19	1/4	1,361.28	1/4	1,016.31	1/4	661.71	1/4	302.72	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,065.71	1/2	1,706.71	1/2	1,354.08	1/2	1,009.13	1/2	654.23	1/2	295.24	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,058.23	3/4	1,699.24	3/4	1,346.88	3/4	1,001.95	3/4	646.75	3/4	287.76	3/4		3/4	3/4	3/4		3/4	3/4
11	2,050.75	11	1,691.76	11	1,339.69	11	994.78	11	639.27	11	280.28	11		11	11	11		11	11
1/4	2,043.27	1/4	1,684.28	1/4	1,332.49	1/4	987.60	1/4	631.79	1/4	272.80	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,035.79	1/2	1,676.80	1/2	1,325.30	1/2	980.42	1/2	624.31	1/2	265.32	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,028.32	3/4	1,669.32	3/4	1,318.10	3/4	973.25	3/4	616.83	3/4	257.85	3/4		3/4	3/4	3/4		3/4	3/4

STRAPPED: 02/21/2013 CL - SW
 CALCULATED: 02/22/2013 CL
 PRINTED: 02/22/2013 CL

CANCELS AND SUPERCEDES
 ALL PRIOR TO 02/2013

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 29105"

2 STBD

ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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		
1/4		1/4		1/4		1/4		1/4	4,498.39	1/4	4,176.27	1/4	3,839.01	1/4	3,486.86	1/4	3,129.39	1/4	2,770.44		
1/2		1/2		1/2		1/2		1/2	4,485.28	1/2	4,162.53	1/2	3,824.64	1/2	3,471.97	1/2	3,114.48	1/2	2,755.48		
3/4		3/4		3/4		3/4		3/4	4,478.70	3/4	4,155.63	3/4	3,817.43	3/4	3,464.52	3/4	3,107.00	3/4	2,748.00		
1		1		1		1		1	4,789.08	1	4,472.12	1	4,148.73	1	3,810.21	1	3,457.07	1	3,099.53	1	2,740.52
1/4		1/4		1/4		1/4		1/4	4,783.97	1/4	4,465.54	1/4	4,141.83	1/4	3,803.00	1/4	3,449.63	1/4	3,092.05	1/4	2,733.04
1/2		1/2		1/2		1/2		1/2	4,778.86	1/2	4,458.96	1/2	4,134.93	1/2	3,795.79	1/2	3,442.18	1/2	3,084.57	1/2	2,725.57
3/4		3/4		3/4		3/4		3/4	4,772.51	3/4	4,452.36	3/4	4,128.01	3/4	3,788.55	3/4	3,434.73	3/4	3,077.09	3/4	2,718.09
2		2		2		2		2	4,766.17	2	4,445.75	2	4,121.09	2	3,781.31	2	3,427.29	2	3,069.61	2	2,710.61
1/4		1/4		1/4		1/4		1/4	4,759.83	1/4	4,439.15	1/4	4,114.17	1/4	3,774.07	1/4	3,419.84	1/4	3,062.13	1/4	2,703.13
1/2		1/2		1/2		1/2		1/2	4,753.49	1/2	4,432.55	1/2	4,107.25	1/2	3,766.83	1/2	3,412.39	1/2	3,054.65	1/2	2,695.65
3/4		3/4		3/4		3/4		3/4	4,746.26	3/4	4,425.91	3/4	4,100.31	3/4	3,759.57	3/4	3,404.95	3/4	3,047.17	3/4	2,688.17
3		3		3		3		3	4,739.04	3	4,419.28	3	4,093.36	3	3,752.31	3	3,397.50	3	3,039.69	3	2,680.69
1/4		1/4		1/4		1/4		1/4	4,731.81	1/4	4,412.65	1/4	4,086.42	1/4	3,745.05	1/4	3,390.05	1/4	3,032.21	1/4	2,673.21
1/2		1/2		1/2		1/2		1/2	4,724.58	1/2	4,406.02	1/2	4,079.47	1/2	3,737.79	1/2	3,382.60	1/2	3,024.73	1/2	2,665.73
3/4		3/4		3/4		3/4		3/4	4,717.14	3/4	4,399.36	3/4	4,072.50	3/4	3,730.50	3/4	3,375.16	3/4	3,017.25	3/4	2,658.25
4		4		4		4		4	4,709.69	4	4,392.71	4	4,065.53	4	3,723.21	4	3,367.71	4	3,009.77	4	2,650.77
1/4		1/4		1/4		1/4		1/4	4,702.24	1/4	4,386.05	1/4	4,058.55	1/4	3,715.93	1/4	3,360.26	1/4	3,002.30	1/4	2,643.29
1/2		1/2		1/2		1/2		1/2	4,694.80	1/2	4,379.39	1/2	4,051.58	1/2	3,708.64	1/2	3,352.82	1/2	2,994.82	1/2	2,635.81
3/4		3/4		3/4		3/4		3/4	4,687.75	3/4	4,372.71	3/4	4,044.58	3/4	3,701.33	3/4	3,345.37	3/4	2,987.34	3/4	2,628.34
5		5		5		5		5	4,680.70	5	4,366.02	5	4,037.58	5	3,694.01	5	3,337.92	5	2,979.86	5	2,620.86
1/4		1/4		1/4		1/4		1/4	4,673.65	1/4	4,359.34	1/4	4,030.58	1/4	3,686.70	1/4	3,330.48	1/4	2,972.38	1/4	2,613.38
1/2		1/2		1/2		1/2		1/2	4,666.60	1/2	4,352.66	1/2	4,023.59	1/2	3,679.38	1/2	3,323.03	1/2	2,964.90	1/2	2,605.90
3/4		3/4		3/4		3/4		3/4	4,660.20	3/4	4,345.95	3/4	4,016.56	3/4	3,672.04	3/4	3,315.58	3/4	2,957.42	3/4	2,598.42
6		6		6		6		6	4,653.81	6	4,339.24	6	4,009.53	6	3,664.70	6	3,308.13	6	2,949.94	6	2,590.94
1/4		1/4		1/4		1/4		1/4	4,647.41	1/4	4,332.53	1/4	4,002.51	1/4	3,657.36	1/4	3,300.69	1/4	2,942.46	1/4	2,583.46
1/2		1/2		1/2		1/2		1/2	4,641.01	1/2	4,325.82	1/2	3,995.48	1/2	3,650.02	1/2	3,293.24	1/2	2,934.98	1/2	2,575.98
3/4		3/4		3/4		3/4		3/4	4,634.59	3/4	4,319.08	3/4	3,988.43	3/4	3,642.65	3/4	3,285.79	3/4	2,927.50	3/4	2,568.50
7		7		7		7		7	4,628.17	7	4,312.34	7	3,981.38	7	3,635.29	7	3,278.35	7	2,920.02	7	2,561.02
1/4		1/4		1/4		1/4		1/4	4,621.75	1/4	4,305.60	1/4	3,974.33	1/4	3,627.92	1/4	3,270.90	1/4	2,912.55	1/4	2,553.54
1/2		1/2		1/2		1/2		1/2	4,615.33	1/2	4,298.87	1/2	3,967.28	1/2	3,620.55	1/2	3,263.45	1/2	2,905.07	1/2	2,546.06
3/4		3/4		3/4		3/4		3/4	4,608.88	3/4	4,292.10	3/4	3,960.20	3/4	3,613.16	3/4	3,256.01	3/4	2,897.59	3/4	2,538.59
8		8		8		8		8	4,602.43	8	4,285.34	8	3,953.12	8	3,605.77	8	3,248.56	8	2,890.11	8	2,531.11
1/4		1/4		1/4		1/4		1/4	4,595.98	1/4	4,278.58	1/4	3,946.04	1/4	3,598.37	1/4	3,241.11	1/4	2,882.63	1/4	2,523.63
1/2		1/2		1/2		1/2		1/2	4,589.53	1/2	4,271.81	1/2	3,938.96	1/2	3,590.98	1/2	3,233.66	1/2	2,875.15	1/2	2,516.15
3/4		3/4		3/4		3/4		3/4	4,583.05	3/4	4,265.02	3/4	3,931.86	3/4	3,583.56	3/4	3,226.22	3/4	2,867.67	3/4	2,508.67
9		9		9		9		9	4,576.58	9	4,258.23	9	3,924.75	9	3,576.14	9	3,218.77	9	2,860.19	9	2,501.19
1/4		1/4		1/4		1/4		1/4	4,570.10	1/4	4,251.44	1/4	3,917.65	1/4	3,568.72	1/4	3,211.32	1/4	2,852.71	1/4	2,493.71
1/2		1/2		1/2		1/2		1/2	4,563.63	1/2	4,244.65	1/2	3,910.54	1/2	3,561.30	1/2	3,203.88	1/2	2,845.23	1/2	2,486.23
3/4		3/4		3/4		3/4		3/4	4,557.12	3/4	4,237.83	3/4	3,903.41	3/4	3,553.86	3/4	3,196.43	3/4	2,837.75	3/4	2,478.75
10		10		10		10		10	4,550.62	10	4,231.02	10	3,896.28	10	3,546.42	10	3,188.98	10	2,830.27	10	2,471.27
1/4		1/4		1/4		1/4		1/4	4,544.12	1/4	4,224.20	1/4	3,889.15	1/4	3,538.98	1/4	3,181.54	1/4	2,822.79	1/4	2,463.79
1/2		1/2		1/2		1/2		1/2	4,537.62	1/2	4,217.38	1/2	3,882.01	1/2	3,531.54	1/2	3,174.09	1/2	2,815.32	1/2	2,456.31
3/4		3/4		3/4		3/4		3/4	4,531.09	3/4	4,210.54	3/4	3,874.85	3/4	3,524.10	3/4	3,166.64	3/4	2,807.84	3/4	2,448.83
11		11		11		11		11	4,524.56	11	4,203.69	11	3,867.70	11	3,516.65	11	3,159.19	11	2,800.36	11	2,441.36
1/4		1/4		1/4		1/4		1/4	4,518.03	1/4	4,196.85	1/4	3,860.54	1/4	3,509.20	1/4	3,151.75	1/4	2,792.88	1/4	2,433.88
1/2		1/2		1/2		1/2		1/2	4,511.50	1/2	4,190.01	1/2	3,853.38	1/2	3,501.76	1/2	3,144.30	1/2	2,785.40	1/2	2,426.40
3/4		3/4		3/4		3/4		3/4	4,504.94	3/4	4,183.14	3/4	3,846.19	3/4	3,494.31	3/4	3,136.85	3/4	2,777.92	3/4	2,418.92

**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'-06" 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 29105"

2 STBD
ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	2,411.44	0	2,052.44	0	1,693.44	0	1,334.43	0	975.67	0	616.83	0	257.85	0		0		0	
1/4	2,403.96	1/4	2,044.96	1/4	1,685.96	1/4	1,326.95	1/4	968.20	1/4	609.35	1/4	250.37	1/4	1/4		1/4		1/4
1/2	2,396.48	1/2	2,037.48	1/2	1,678.48	1/2	1,319.48	1/2	960.74	1/2	601.87	1/2	242.89	1/2	1/2		1/2		1/2
3/4	2,389.00	3/4	2,030.00	3/4	1,671.00	3/4	1,312.00	3/4	953.27	3/4	594.40	3/4	235.41	3/4	3/4		3/4		3/4
1	2,381.52	1	2,022.52	1	1,663.52	1	1,304.52	1	945.80	1	586.92	1	227.93	1	1		1		1
1/4	2,374.04	1/4	2,015.04	1/4	1,656.04	1/4	1,297.04	1/4	938.34	1/4	579.44	1/4	220.45	1/4	1/4		1/4		1/4
1/2	2,366.56	1/2	2,007.56	1/2	1,648.56	1/2	1,289.56	1/2	930.87	1/2	571.96	1/2	212.97	1/2	1/2		1/2		1/2
3/4	2,359.08	3/4	2,000.08	3/4	1,641.08	3/4	1,282.08	3/4	923.40	3/4	564.48	3/4	205.50	3/4	3/4		3/4		3/4
2	2,351.61	2	1,992.60	2	1,633.60	2	1,274.60	2	915.94	2	557.00	2	198.02	2	2		2		2
1/4	2,344.13	1/4	1,985.12	1/4	1,626.12	1/4	1,267.12	1/4	908.47	1/4	549.52	1/4	190.54	1/4	1/4		1/4		1/4
1/2	2,336.65	1/2	1,977.65	1/2	1,618.64	1/2	1,259.64	1/2	901.00	1/2	542.04	1/2	183.07	1/2	1/2		1/2		1/2
3/4	2,329.17	3/4	1,970.17	3/4	1,611.16	3/4	1,252.16	3/4	893.53	3/4	534.56	3/4	175.60	3/4	3/4		3/4		3/4
3	2,321.69	3	1,962.69	3	1,603.69	3	1,244.68	3	886.06	3	527.09	3	168.13	3	3		3		3
1/4	2,314.21	1/4	1,955.21	1/4	1,596.21	1/4	1,237.20	1/4	878.59	1/4	519.61	1/4	160.65	1/4	1/4		1/4		1/4
1/2	2,306.73	1/2	1,947.73	1/2	1,588.73	1/2	1,229.73	1/2	871.12	1/2	512.13	1/2	153.18	1/2	1/2		1/2		1/2
3/4	2,299.25	3/4	1,940.25	3/4	1,581.25	3/4	1,222.25	3/4	863.64	3/4	504.65	3/4	145.72	3/4	3/4		3/4		3/4
4	2,291.77	4	1,932.77	4	1,573.77	4	1,214.77	4	856.16	4	497.17	4	138.27	4	4		4		4
1/4	2,284.29	1/4	1,925.29	1/4	1,566.29	1/4	1,207.29	1/4	848.68	1/4	489.69	1/4	130.81	1/4	1/4		1/4		1/4
1/2	2,276.81	1/2	1,917.81	1/2	1,558.81	1/2	1,199.81	1/2	841.20	1/2	482.21	1/2	123.35	1/2	1/2		1/2		1/2
3/4	2,269.33	3/4	1,910.33	3/4	1,551.33	3/4	1,192.33	3/4	833.72	3/4	474.73	3/4	115.91	3/4	3/4		3/4		3/4
5	2,261.85	5	1,902.85	5	1,543.85	5	1,184.85	5	826.24	5	467.25	5	108.47	5	5		5		5
1/4	2,254.38	1/4	1,895.37	1/4	1,536.37	1/4	1,177.37	1/4	818.76	1/4	459.78	1/4	101.02	1/4	1/4		1/4		1/4
1/2	2,246.90	1/2	1,887.89	1/2	1,528.89	1/2	1,169.89	1/2	811.28	1/2	452.30	1/2	93.58	1/2	1/2		1/2		1/2
3/4	2,239.42	3/4	1,880.42	3/4	1,521.41	3/4	1,162.41	3/4	803.81	3/4	444.82	3/4	86.17	3/4	3/4		3/4		3/4
6	2,231.94	6	1,872.94	6	1,513.93	6	1,154.93	6	796.33	6	437.34	6	78.76	6	6		6		6
1/4	2,224.46	1/4	1,865.46	1/4	1,506.46	1/4	1,147.45	1/4	788.85	1/4	429.86	1/4	71.35	1/4	1/4		1/4		1/4
1/2	2,216.98	1/2	1,857.98	1/2	1,498.98	1/2	1,139.97	1/2	781.37	1/2	422.38	1/2	63.94	1/2	1/2		1/2		1/2
3/4	2,209.50	3/4	1,850.50	3/4	1,491.50	3/4	1,132.50	3/4	773.89	3/4	414.90	3/4	56.99	3/4	3/4		3/4		3/4
7	2,202.02	7	1,843.02	7	1,484.02	7	1,125.03	7	766.41	7	407.42	7	50.04	7	7		7		7
1/4	2,194.54	1/4	1,835.54	1/4	1,476.54	1/4	1,117.55	1/4	758.93	1/4	399.94	1/4	43.09	1/4	1/4		1/4		1/4
1/2	2,187.06	1/2	1,828.06	1/2	1,469.06	1/2	1,110.08	1/2	751.45	1/2	392.47	1/2	36.14	1/2	1/2		1/2		1/2
3/4	2,179.58	3/4	1,820.58	3/4	1,461.58	3/4	1,102.61	3/4	743.97	3/4	384.99	3/4	30.84	3/4	3/4		3/4		3/4
8	2,172.10	8	1,813.10	8	1,454.10	8	1,095.14	8	736.50	8	377.51	8	25.55	8	8		8		8
1/4	2,164.63	1/4	1,805.62	1/4	1,446.62	1/4	1,087.68	1/4	729.02	1/4	370.03	1/4	20.26	1/4	1/4		1/4		1/4
1/2	2,157.15	1/2	1,798.14	1/2	1,439.14	1/2	1,080.21	1/2	721.54	1/2	362.55	1/2	14.96	1/2	1/2		1/2		1/2
3/4	2,149.67	3/4	1,790.67	3/4	1,431.66	3/4	1,072.74	3/4	714.06	3/4	355.07	3/4		3/4	3/4		3/4		3/4
9	2,142.19	9	1,783.19	9	1,424.18	9	1,065.28	9	706.58	9	347.59	9		9	9		9		9
1/4	2,134.71	1/4	1,775.71	1/4	1,416.71	1/4	1,057.81	1/4	699.10	1/4	340.11	1/4		1/4	1/4		1/4		1/4
1/2	2,127.23	1/2	1,768.23	1/2	1,409.23	1/2	1,050.34	1/2	691.62	1/2	332.63	1/2		1/2	1/2		1/2		1/2
3/4	2,119.75	3/4	1,760.75	3/4	1,401.75	3/4	1,042.87	3/4	684.14	3/4	325.16	3/4		3/4	3/4		3/4		3/4
10	2,112.27	10	1,753.27	10	1,394.27	10	1,035.41	10	676.66	10	317.68	10		10	10		10		10
1/4	2,104.79	1/4	1,745.79	1/4	1,386.79	1/4	1,027.94	1/4	669.19	1/4	310.20	1/4		1/4	1/4		1/4		1/4
1/2	2,097.31	1/2	1,738.31	1/2	1,379.31	1/2	1,020.47	1/2	661.71	1/2	302.72	1/2		1/2	1/2		1/2		1/2
3/4	2,089.83	3/4	1,730.83	3/4	1,371.83	3/4	1,013.01	3/4	654.23	3/4	295.24	3/4		3/4	3/4		3/4		3/4
11	2,082.35	11	1,723.35	11	1,364.35	11	1,005.54	11	646.75	11	287.76	11		11	11		11		11
1/4	2,074.87	1/4	1,715.87	1/4	1,356.87	1/4	998.07	1/4	639.27	1/4	280.28	1/4		1/4	1/4		1/4		1/4
1/2	2,067.40	1/2	1,708.39	1/2	1,349.39	1/2	990.61	1/2	631.79	1/2	272.80	1/2		1/2	1/2		1/2		1/2
3/4	2,059.92	3/4	1,700.91	3/4	1,341.91	3/4	983.14	3/4	624.31	3/4	265.32	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/21/2013 CL - SW
CALCULATED: 02/22/2013 CL
PRINTED: 02/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2013

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



BARGE "KIRBY 29105"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

IN	0 FT.			1 FT.			2 FT.			3 FT.			4 FT.			5 FT.			6 FT.			7 FT.			8 FT.			9 FT.		
0	0	0	0	0	4,352.47	0	4,111.24	0	3,864.60	0	3,605.98	0	3,335.72	0	2,981.66	0	2,625.25													
1/4	1/4	1/4	1/4	1/4	4,347.84	1/4	4,106.23	1/4	3,859.34	1/4	3,600.48	1/4	3,330.02	1/4	2,974.23	1/4	2,617.83													
1/2	1/2	1/2	1/2	1/2	4,343.69	1/2	4,101.20	1/2	3,854.06	1/2	3,594.95	1/2	3,322.59	1/2	2,966.81	1/2	2,610.40													
3/4	3/4	3/4	3/4	3/4	4,339.53	3/4	4,096.18	3/4	3,848.78	3/4	3,589.41	3/4	3,315.16	3/4	2,959.38	3/4	2,602.98													
1	1	1	1	1	4,335.38	1	4,091.15	1	3,843.50	1	3,583.88	1	3,307.73	1	2,951.96	1	2,595.55													
1/4	1/4	1/4	1/4	1/4	4,331.23	1/4	4,086.12	1/4	3,838.23	1/4	3,578.35	1/4	3,300.30	1/4	2,944.53	1/4	2,588.13													
1/2	1/2	1/2	1/2	1/2	4,325.88	1/2	4,081.07	1/2	3,832.93	1/2	3,572.80	1/2	3,292.87	1/2	2,937.11	1/2	2,580.70													
3/4	3/4	3/4	3/4	3/4	4,320.52	3/4	4,076.02	3/4	3,827.63	3/4	3,567.25	3/4	3,285.45	3/4	2,929.68	3/4	2,573.28													
2	2	2	2	2	4,315.17	2	4,070.98	2	3,822.33	2	3,561.70	2	3,278.02	2	2,922.26	2	2,565.85													
1/4	1/4	1/4	1/4	1/4	4,309.81	1/4	4,065.93	1/4	3,817.04	1/4	3,556.15	1/4	3,270.59	1/4	2,914.83	1/4	2,558.43													
1/2	1/2	1/2	1/2	1/2	4,304.11	1/2	4,060.86	1/2	3,811.72	1/2	3,550.58	1/2	3,263.16	1/2	2,907.41	1/2	2,551.00													
3/4	3/4	3/4	3/4	3/4	4,298.40	3/4	4,055.79	3/4	3,806.40	3/4	3,545.02	3/4	3,255.73	3/4	2,899.98	3/4	2,543.58													
3	3	3	3	3	4,292.70	3	4,050.72	3	3,801.07	3	3,539.45	3	3,248.31	3	2,892.56	3	2,536.15													
1/4	1/4	1/4	1/4	1/4	4,286.99	1/4	4,045.65	1/4	3,795.75	1/4	3,533.88	1/4	3,240.88	1/4	2,885.13	1/4	2,528.73													
1/2	1/2	1/2	1/2	1/2	4,281.29	1/2	4,040.56	1/2	3,790.41	1/2	3,528.29	1/2	3,233.45	1/2	2,877.71	1/2	2,521.30													
3/4	3/4	3/4	3/4	3/4	4,275.59	3/4	4,035.47	3/4	3,785.08	3/4	3,522.70	3/4	3,226.02	3/4	2,870.28	3/4	2,513.88													
4	4	4	4	4	4,269.88	4	4,030.38	4	3,779.74	4	3,517.11	4	3,218.59	4	2,862.86	4	2,506.45													
1/4	1/4	1/4	1/4	1/4	4,264.18	1/4	4,025.28	1/4	3,774.40	1/4	3,511.51	1/4	3,211.16	1/4	2,855.43	1/4	2,499.03													
1/2	1/2	1/2	1/2	1/2	4,259.32	1/2	4,020.17	1/2	3,769.03	1/2	3,505.90	1/2	3,203.76	1/2	2,848.01	1/2	2,491.60													
3/4	3/4	3/4	3/4	3/4	4,254.45	3/4	4,015.06	3/4	3,763.67	3/4	3,500.29	3/4	3,196.36	3/4	2,840.58	3/4	2,484.18													
5	5	5	5	5	4,249.59	5	4,009.95	5	3,758.31	5	3,494.68	5	3,188.96	5	2,833.16	5	2,476.75													
1/4	1/4	1/4	1/4	1/4	4,244.73	1/4	4,004.84	1/4	3,752.95	1/4	3,489.08	1/4	3,181.56	1/4	2,825.73	1/4	2,469.33													
1/2	1/2	1/2	1/2	1/2	4,239.84	1/2	3,999.71	1/2	3,747.56	1/2	3,483.44	1/2	3,174.16	1/2	2,818.31	1/2	2,461.90													
3/4	3/4	3/4	3/4	3/4	4,234.96	3/4	3,994.58	3/4	3,742.18	3/4	3,477.81	3/4	3,166.76	3/4	2,810.88	3/4	2,454.48													
6	6	6	6	6	4,230.08	6	3,989.44	6	3,736.80	6	3,472.18	6	3,159.36	6	2,803.46	6	2,447.05													
1/4	1/4	1/4	1/4	1/4	4,225.20	1/4	3,984.31	1/4	3,731.42	1/4	3,466.54	1/4	3,151.96	1/4	2,796.03	1/4	2,439.63													
1/2	1/2	1/2	1/2	1/2	4,220.29	1/2	3,979.15	1/2	3,726.02	1/2	3,460.89	1/2	3,144.55	1/2	2,788.61	1/2	2,432.20													
3/4	3/4	3/4	3/4	3/4	4,215.39	3/4	3,974.00	3/4	3,720.61	3/4	3,455.24	3/4	3,137.15	3/4	2,781.18	3/4	2,424.78													
7	7	7	7	7	4,210.48	7	3,968.85	7	3,715.21	7	3,449.59	7	3,129.75	7	2,773.76	7	2,417.35													
1/4	1/4	1/4	1/4	1/4	4,205.58	1/4	3,963.70	1/4	3,709.80	1/4	3,443.93	1/4	3,122.35	1/4	2,766.33	1/4	2,409.93													
1/2	1/2	1/2	1/2	1/2	4,200.65	1/2	3,958.52	1/2	3,704.38	1/2	3,438.26	1/2	3,114.95	1/2	2,758.91	1/2	2,402.50													
3/4	3/4	3/4	3/4	3/4	4,195.73	3/4	3,953.34	3/4	3,698.96	3/4	3,432.58	3/4	3,107.55	3/4	2,751.48	3/4	2,395.08													
8	8	8	8	8	4,190.81	8	3,948.17	8	3,693.54	8	3,426.91	8	3,100.15	8	2,744.05	8	2,387.65													
1/4	1/4	1/4	1/4	1/4	4,185.88	1/4	3,942.99	1/4	3,688.11	1/4	3,421.23	1/4	3,092.75	1/4	2,736.63	1/4	2,380.23													
1/2	1/2	1/2	1/2	1/2	4,180.93	1/2	3,937.80	1/2	3,682.67	1/2	3,415.54	1/2	3,085.35	1/2	2,729.20	1/2	2,372.80													
3/4	3/4	3/4	3/4	3/4	4,175.99	3/4	3,932.60	3/4	3,677.22	3/4	3,409.85	3/4	3,077.94	3/4	2,721.78	3/4	2,365.37													
9	9	9	9	9	4,171.04	9	3,927.41	9	3,671.77	9	3,404.15	9	3,070.54	9	2,714.35	9	2,357.95													
1/4	1/4	1/4	1/4	1/4	4,166.09	1/4	3,922.21	1/4	3,666.32	1/4	3,398.46	1/4	3,063.14	1/4	2,706.93	1/4	2,350.52													
1/2	1/2	1/2	1/2	1/2	4,161.12	1/2	3,916.99	1/2	3,660.86	1/2	3,392.75	1/2	3,055.74	1/2	2,699.50	1/2	2,343.10													
3/4	3/4	3/4	3/4	3/4	4,156.16	3/4	3,911.77	3/4	3,655.39	3/4	3,387.05	3/4	3,048.34	3/4	2,692.08	3/4	2,335.67													
10	10	10	10	10	4,151.19	10	3,906.55	10	3,649.93	10	3,381.35	10	3,040.94	10	2,684.65	10	2,328.25													
1/4	1/4	1/4	1/4	1/4	4,146.23	1/4	3,901.34	1/4	3,644.46	1/4	3,375.64	1/4	3,033.54	1/4	2,677.23	1/4	2,320.82													
1/2	1/2	1/2	1/2	1/2	4,141.23	1/2	3,896.10	1/2	3,638.97	1/2	3,369.94	1/2	3,026.14	1/2	2,669.80	1/2	2,313.39													
3/4	3/4	3/4	3/4	3/4	4,136.24	3/4	3,890.86	3/4	3,633.49	3/4	3,364.24	3/4	3,018.74	3/4	2,662.38	3/4	2,305.97													
11	11	11	11	11	4,131.25	11	3,885.63	11	3,628.00	11	3,358.53	11	3,011.33	11	2,654.95	11	2,298.54													
1/4	1/4	1/4	1/4	1/4	4,366.37	1/4	4,126.26	1/4	3,880.39	1/4	3,622.51	1/4	3,352.83	1/4	3,003.93	1/4	2,647.53	1/4	2,291.12											
1/2	1/2	1/2	1/2	1/2	4,361.74	1/2	4,121.25	1/2	3,875.13	1/2	3,617.00	1/2	3,347.13	1/2	2,996.51	1/2	2,640.10	1/2	2,283.69											
3/4	3/4	3/4	3/4	3/4	4,357.10	3/4	4,116.24	3/4	3,869.86	3/4	3,611.49	3/4	3,341.42	3/4	2,989.08	3/4	2,632.68	3/4	2,276.27											

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 29105"

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	2,268.84	0	1,911.98	0	1,556.11	0	1,199.83	0	855.37	0	498.39	0	141.22	0		0		0	
1/4	2,261.42	1/4	1,904.54	1/4	1,548.69	1/4	1,192.66	1/4	847.95	1/4	490.95	1/4	133.78	1/4	1/4	1/4		1/4	
1/2	2,253.99	1/2	1,897.12	1/2	1,541.25	1/2	1,185.49	1/2	840.53	1/2	483.51	1/2	126.34	1/2	1/2	1/2		1/2	
3/4	2,246.56	3/4	1,889.71	3/4	1,533.81	3/4	1,178.32	3/4	833.11	3/4	476.07	3/4	118.90	3/4	3/4	3/4		3/4	
1	2,239.14	1	1,882.30	1	1,526.37	1	1,171.14	1	825.69	1	468.63	1	111.46	1	1	1		1	
1/4	2,231.71	1/4	1,874.88	1/4	1,518.93	1/4	1,163.97	1/4	818.27	1/4	461.19	1/4	104.02	1/4	1/4	1/4		1/4	
1/2	2,224.29	1/2	1,867.47	1/2	1,511.49	1/2	1,156.80	1/2	810.85	1/2	453.75	1/2	96.90	1/2	1/2	1/2		1/2	
3/4	2,216.86	3/4	1,860.06	3/4	1,504.05	3/4	1,149.63	3/4	803.43	3/4	446.31	3/4	89.77	3/4	3/4	3/4		3/4	
2	2,209.44	2	1,852.64	2	1,496.61	2	1,142.46	2	796.01	2	438.86	2	82.64	2	2	2		2	
1/4	2,202.01	1/4	1,845.23	1/4	1,489.17	1/4	1,135.29	1/4	788.59	1/4	431.42	1/4	75.52	1/4	1/4	1/4		1/4	
1/2	2,194.59	1/2	1,837.81	1/2	1,481.73	1/2	1,128.11	1/2	781.15	1/2	423.98	1/2	69.33	1/2	1/2	1/2		1/2	
3/4	2,187.16	3/4	1,830.40	3/4	1,474.30	3/4	1,120.94	3/4	773.71	3/4	416.54	3/4	63.15	3/4	3/4	3/4		3/4	
3	2,179.73	3	1,822.99	3	1,466.86	3	1,113.77	3	766.27	3	409.10	3	56.96	3	3	3		3	
1/4	2,172.31	1/4	1,815.57	1/4	1,459.42	1/4	1,106.60	1/4	758.83	1/4	401.66	1/4	50.78	1/4	1/4	1/4		1/4	
1/2	2,164.88	1/2	1,808.16	1/2	1,451.98	1/2	1,099.43	1/2	751.39	1/2	394.22	1/2	45.85	1/2	1/2	1/2		1/2	
3/4	2,157.46	3/4	1,800.75	3/4	1,444.54	3/4	1,092.25	3/4	743.95	3/4	386.78	3/4	40.92	3/4	3/4	3/4		3/4	
4	2,150.03	4	1,793.33	4	1,437.10	4	1,085.08	4	736.50	4	379.34	4	35.99	4	4	4		4	
1/4	2,142.61	1/4	1,785.92	1/4	1,429.66	1/4	1,077.91	1/4	729.06	1/4	371.90	1/4	31.06	1/4	1/4	1/4		1/4	
1/2	2,135.17	1/2	1,778.51	1/2	1,422.22	1/2	1,070.75	1/2	721.62	1/2	364.45	1/2	27.40	1/2	1/2	1/2		1/2	
3/4	2,127.73	3/4	1,771.09	3/4	1,414.78	3/4	1,063.60	3/4	714.18	3/4	357.01	3/4	23.73	3/4	3/4	3/4		3/4	
5	2,120.29	5	1,763.68	5	1,407.34	5	1,056.44	5	706.74	5	349.57	5	20.06	5	5	5		5	
1/4	2,112.85	1/4	1,756.27	1/4	1,399.90	1/4	1,049.28	1/4	699.30	1/4	342.13	1/4	16.40	1/4	1/4	1/4		1/4	
1/2	2,105.41	1/2	1,748.85	1/2	1,392.46	1/2	1,042.12	1/2	691.86	1/2	334.69	1/2		1/2	1/2	1/2		1/2	
3/4	2,097.97	3/4	1,741.44	3/4	1,385.02	3/4	1,034.97	3/4	684.42	3/4	327.25	3/4		3/4	3/4	3/4		3/4	
6	2,090.53	6	1,734.03	6	1,377.58	6	1,027.81	6	676.98	6	319.81	6		6	6	6		6	
1/4	2,083.09	1/4	1,726.61	1/4	1,370.14	1/4	1,020.65	1/4	669.54	1/4	312.37	1/4		1/4	1/4	1/4		1/4	
1/2	2,075.65	1/2	1,719.20	1/2	1,362.70	1/2	1,013.50	1/2	662.09	1/2	304.93	1/2		1/2	1/2	1/2		1/2	
3/4	2,068.21	3/4	1,711.79	3/4	1,355.26	3/4	1,006.34	3/4	654.65	3/4	297.49	3/4		3/4	3/4	3/4		3/4	
7	2,060.77	7	1,704.37	7	1,347.82	7	999.19	7	647.21	7	290.04	7		7	7	7		7	
1/4	2,053.33	1/4	1,696.96	1/4	1,340.38	1/4	992.03	1/4	639.77	1/4	282.60	1/4		1/4	1/4	1/4		1/4	
1/2	2,045.89	1/2	1,689.55	1/2	1,332.94	1/2	984.88	1/2	632.33	1/2	275.16	1/2		1/2	1/2	1/2		1/2	
3/4	2,038.45	3/4	1,682.13	3/4	1,325.50	3/4	977.73	3/4	624.89	3/4	267.72	3/4		3/4	3/4	3/4		3/4	
8	2,031.01	8	1,674.72	8	1,318.06	8	970.58	8	617.45	8	260.28	8		8	8	8		8	
1/4	2,023.57	1/4	1,667.31	1/4	1,310.62	1/4	963.43	1/4	610.01	1/4	252.84	1/4		1/4	1/4	1/4		1/4	
1/2	2,016.13	1/2	1,659.89	1/2	1,303.18	1/2	956.28	1/2	602.57	1/2	245.40	1/2		1/2	1/2	1/2		1/2	
3/4	2,008.69	3/4	1,652.48	3/4	1,295.74	3/4	949.13	3/4	595.13	3/4	237.96	3/4		3/4	3/4	3/4		3/4	
9	2,001.25	9	1,645.07	9	1,288.30	9	941.98	9	587.68	9	230.52	9		9	9	9		9	
1/4	1,993.81	1/4	1,637.65	1/4	1,280.86	1/4	934.83	1/4	580.24	1/4	223.08	1/4		1/4	1/4	1/4		1/4	
1/2	1,986.37	1/2	1,630.24	1/2	1,273.42	1/2	927.68	1/2	572.80	1/2	215.63	1/2		1/2	1/2	1/2		1/2	
3/4	1,978.93	3/4	1,622.83	3/4	1,265.98	3/4	920.53	3/4	565.36	3/4	208.19	3/4		3/4	3/4	3/4		3/4	
10	1,971.49	10	1,615.41	10	1,258.54	10	913.38	10	557.92	10	200.75	10		10	10	10		10	
1/4	1,964.05	1/4	1,608.00	1/4	1,251.10	1/4	906.23	1/4	550.48	1/4	193.31	1/4		1/4	1/4	1/4		1/4	
1/2	1,956.61	1/2	1,600.59	1/2	1,243.66	1/2	899.08	1/2	543.04	1/2	185.87	1/2		1/2	1/2	1/2		1/2	
3/4	1,949.17	3/4	1,593.17	3/4	1,236.22	3/4	891.93	3/4	535.60	3/4	178.43	3/4		3/4	3/4	3/4		3/4	
11	1,941.73	11	1,585.76	11	1,228.79	11	884.78	11	528.16	11	170.99	11		11	11	11		11	
1/4	1,934.29	1/4	1,578.35	1/4	1,221.35	1/4	877.63	1/4	520.72	1/4	163.55	1/4		1/4	1/4	1/4		1/4	
1/2	1,926.85	1/2	1,570.93	1/2	1,214.17	1/2	870.21	1/2	513.27	1/2	156.11	1/2		1/2	1/2	1/2		1/2	
3/4	1,919.41	3/4	1,563.52	3/4	1,207.00	3/4	862.79	3/4	505.83	3/4	148.67	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/21/2013 CL - SW
CALCULATED: 02/22/2013 CL
PRINTED: 02/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
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BARGE "KIRBY 29105"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,380.92	0	4,138.50	0	3,890.67	0	3,630.85	0	3,359.35	0	3,003.30	0	2,645.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,376.26	1/4	4,133.46	1/4	3,885.39	1/4	3,625.32	1/4	3,353.62	1/4	2,995.84	1/4	2,638.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,372.08	1/2	4,128.41	1/2	3,880.08	1/2	3,619.76	1/2	3,346.17	1/2	2,988.39	1/2	2,630.61		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,367.91	3/4	4,123.36	3/4	3,874.78	3/4	3,614.20	3/4	3,338.71	3/4	2,980.94	3/4	2,623.16		
1	1	1	1	1	1	1	4,363.73	1	4,118.31	1	3,869.47	1	3,608.65	1	3,331.26	1	2,973.48	1	2,615.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,359.56	1/4	4,113.26	1/4	3,864.17	1/4	3,603.09	1/4	3,323.81	1/4	2,966.03	1/4	2,608.25		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,354.18	1/2	4,108.19	1/2	3,858.85	1/2	3,597.51	1/2	3,316.35	1/2	2,958.57	1/2	2,600.80		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,348.80	3/4	4,103.11	3/4	3,853.53	3/4	3,591.94	3/4	3,308.90	3/4	2,951.12	3/4	2,593.34		
2	2	2	2	2	2	2	4,343.42	2	4,098.04	2	3,848.21	2	3,586.36	2	3,301.45	2	2,943.67	2	2,585.89		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,338.04	1/4	4,092.96	1/4	3,842.88	1/4	3,580.79	1/4	3,293.99	1/4	2,936.21	1/4	2,578.44		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,332.31	1/2	4,087.87	1/2	3,837.54	1/2	3,575.20	1/2	3,286.54	1/2	2,928.76	1/2	2,570.98		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,326.58	3/4	4,082.78	3/4	3,832.19	3/4	3,569.60	3/4	3,279.08	3/4	2,921.31	3/4	2,563.53		
3	3	3	3	3	3	3	4,320.85	3	4,077.68	3	3,826.85	3	3,564.01	3	3,271.63	3	2,913.85	3	2,556.08		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,315.12	1/4	4,072.59	1/4	3,821.50	1/4	3,558.42	1/4	3,264.18	1/4	2,906.40	1/4	2,548.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,309.39	1/2	4,067.47	1/2	3,816.14	1/2	3,552.80	1/2	3,256.72	1/2	2,898.95	1/2	2,541.17		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,303.66	3/4	4,062.36	3/4	3,810.77	3/4	3,547.18	3/4	3,249.27	3/4	2,891.49	3/4	2,533.71		
4	4	4	4	4	4	4	4,297.93	4	4,057.24	4	3,805.41	4	3,541.57	4	3,241.82	4	2,884.04	4	2,526.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,292.21	1/4	4,052.12	1/4	3,800.04	1/4	3,535.95	1/4	3,234.36	1/4	2,876.58	1/4	2,518.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,287.32	1/2	4,046.99	1/2	3,794.66	1/2	3,530.32	1/2	3,226.91	1/2	2,869.13	1/2	2,511.35		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,282.43	3/4	4,041.85	3/4	3,789.27	3/4	3,524.68	3/4	3,219.45	3/4	2,861.68	3/4	2,503.90		
5	5	5	5	5	5	5	4,277.54	5	4,036.72	5	3,783.88	5	3,519.05	5	3,212.00	5	2,854.22	5	2,496.45		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,272.65	1/4	4,031.58	1/4	3,778.49	1/4	3,513.41	1/4	3,204.55	1/4	2,846.77	1/4	2,488.99		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,267.75	1/2	4,026.42	1/2	3,773.09	1/2	3,507.75	1/2	3,197.09	1/2	2,839.32	1/2	2,481.54		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,262.84	3/4	4,021.26	3/4	3,767.68	3/4	3,502.09	3/4	3,189.64	3/4	2,831.86	3/4	2,474.08		
6	6	6	6	6	6	6	4,257.94	6	4,016.11	6	3,762.28	6	3,496.43	6	3,182.19	6	2,824.41	6	2,466.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,253.03	1/4	4,011.95	1/4	3,756.87	1/4	3,490.78	1/4	3,174.73	1/4	2,816.95	1/4	2,459.18		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,248.10	1/2	4,007.77	1/2	3,751.44	1/2	3,485.10	1/2	3,167.28	1/2	2,809.50	1/2	2,451.72		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,243.17	3/4	4,002.59	3/4	3,746.01	3/4	3,479.42	3/4	3,159.82	3/4	2,802.05	3/4	2,444.27		
7	7	7	7	7	7	7	4,238.24	7	3,997.42	7	3,740.58	7	3,473.74	7	3,152.37	7	2,794.59	7	2,436.82		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,233.31	1/4	3,992.24	1/4	3,735.15	1/4	3,468.07	1/4	3,144.92	1/4	2,787.14	1/4	2,429.36		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,228.36	1/2	3,987.04	1/2	3,729.70	1/2	3,462.37	1/2	3,137.46	1/2	2,779.69	1/2	2,421.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,223.41	3/4	3,981.84	3/4	3,724.25	3/4	3,456.67	3/4	3,130.01	3/4	2,772.23	3/4	2,414.45		
8	8	8	8	8	8	8	4,218.46	8	3,976.63	8	3,718.81	8	3,450.97	8	3,122.56	8	2,764.78	8	2,407.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,213.51	1/4	3,971.43	1/4	3,713.36	1/4	3,445.26	1/4	3,115.10	1/4	2,757.33	1/4	2,399.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,208.54	1/2	3,966.21	1/2	3,707.89	1/2	3,439.55	1/2	3,107.65	1/2	2,749.87	1/2	2,392.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,203.57	3/4	3,961.04	3/4	3,702.41	3/4	3,433.83	3/4	3,100.20	3/4	2,742.42	3/4	2,384.64		
9	9	9	9	9	9	9	4,198.59	9	3,955.77	9	3,696.94	9	3,428.11	9	3,092.74	9	2,734.96	9	2,377.19		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,193.62	1/4	3,950.56	1/4	3,691.47	1/4	3,422.39	1/4	3,085.29	1/4	2,727.51	1/4	2,369.73		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,188.63	1/2	3,945.31	1/2	3,685.98	1/2	3,416.66	1/2	3,077.83	1/2	2,720.06	1/2	2,362.28		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,183.64	3/4	3,939.07	3/4	3,680.49	3/4	3,410.93	3/4	3,070.38	3/4	2,712.60	3/4	2,354.83		
10	10	10	10	10	10	10	4,178.65	10	3,933.82	10	3,675.00	10	3,405.20	10	3,062.93	10	2,705.15	10	2,347.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,173.66	1/4	3,928.58	1/4	3,669.51	1/4	3,399.47	1/4	3,055.47	1/4	2,697.70	1/4	2,339.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,168.64	1/2	3,923.32	1/2	3,663.99	1/2	3,393.73	1/2	3,048.02	1/2	2,690.24	1/2	2,332.46		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,163.63	3/4	3,917.06	3/4	3,658.48	3/4	3,388.00	3/4	3,040.57	3/4	2,682.79	3/4	2,325.01		
11	11	11	11	11	11	11	4,158.61	11	3,911.79	11	3,652.96	11	3,382.27	11	3,033.11	11	2,675.33	11	2,317.56		
1/4	1/4	1/4	1/4	1/4	1/4		4,394.90	1/4	4,153.59	1/4	3,906.53	1/4	3,647.45	1/4	3,376.54	1/4	3,025.66	1/4	2,667.88	1/4	2,310.10
1/2	1/2	1/2	1/2	1/2	1/2		4,390.24	1/2	4,148.56	1/2	3,901.25	1/2	3,641.92	1/2	3,370.81	1/2	3,018.20	1/2	2,660.43	1/2	2,302.65
3/4	3/4	3/4	3/4	3/4	3/4		4,385.58	3/4	4,143.53	3/4	3,895.96	3/4	3,636.38	3/4	3,365.08	3/4	3,010.75	3/4	2,652.97	3/4	2,295.20

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 29105"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,287.74	0	1,929.96	0	1,572.19	0	1,214.41	0	856.91	0	499.24	0	141.47	0		0		0	
1/4	2,280.29	1/4	1,922.51	1/4	1,564.73	1/4	1,206.96	1/4	849.46	1/4	491.79	1/4	134.02	1/4		1/4		1/4	
1/2	2,272.83	1/2	1,915.06	1/2	1,557.28	1/2	1,199.50	1/2	842.02	1/2	484.34	1/2	126.57	1/2		1/2		1/2	
3/4	2,265.38	3/4	1,907.60	3/4	1,549.83	3/4	1,192.05	3/4	834.58	3/4	476.88	3/4	119.12	3/4		3/4		3/4	
1	2,257.93	1	1,900.15	1	1,542.37	1	1,184.59	1	827.14	1	469.43	1	111.66	1		1		1	
1/4	2,250.47	1/4	1,892.70	1/4	1,534.92	1/4	1,177.14	1/4	819.70	1/4	461.98	1/4	104.21	1/4		1/4		1/4	
1/2	2,243.02	1/2	1,885.24	1/2	1,527.46	1/2	1,169.69	1/2	812.25	1/2	454.52	1/2	97.07	1/2		1/2		1/2	
3/4	2,235.57	3/4	1,877.79	3/4	1,520.01	3/4	1,162.23	3/4	804.81	3/4	447.07	3/4	89.93	3/4		3/4		3/4	
2	2,228.11	2	1,870.33	2	1,512.56	2	1,154.78	2	797.37	2	439.61	2	82.79	2		2		2	
1/4	2,220.66	1/4	1,862.88	1/4	1,505.10	1/4	1,147.33	1/4	789.93	1/4	432.16	1/4	75.66	1/4		1/4		1/4	
1/2	2,213.20	1/2	1,855.43	1/2	1,497.65	1/2	1,139.87	1/2	782.48	1/2	424.71	1/2	69.46	1/2		1/2		1/2	
3/4	2,205.75	3/4	1,847.97	3/4	1,490.20	3/4	1,132.42	3/4	775.02	3/4	417.25	3/4	63.26	3/4		3/4		3/4	
3	2,198.30	3	1,840.52	3	1,482.74	3	1,124.96	3	767.57	3	409.80	3	57.06	3		3		3	
1/4	2,190.84	1/4	1,833.07	1/4	1,475.29	1/4	1,117.51	1/4	760.12	1/4	402.35	1/4	50.87	1/4		1/4		1/4	
1/2	2,183.39	1/2	1,825.61	1/2	1,467.83	1/2	1,110.06	1/2	752.66	1/2	394.89	1/2	45.92	1/2		1/2		1/2	
3/4	2,175.94	3/4	1,818.16	3/4	1,460.38	3/4	1,102.60	3/4	745.21	3/4	387.44	3/4	40.98	3/4		3/4		3/4	
4	2,168.48	4	1,810.71	4	1,452.93	4	1,095.15	4	737.75	4	379.99	4	36.04	4		4		4	
1/4	2,161.03	1/4	1,803.25	1/4	1,445.47	1/4	1,087.70	1/4	730.30	1/4	372.53	1/4	31.10	1/4		1/4		1/4	
1/2	2,153.58	1/2	1,795.80	1/2	1,438.02	1/2	1,080.24	1/2	722.85	1/2	365.08	1/2	27.43	1/2		1/2		1/2	
3/4	2,146.12	3/4	1,788.34	3/4	1,430.57	3/4	1,072.79	3/4	715.39	3/4	357.63	3/4	23.75	3/4		3/4		3/4	
5	2,138.67	5	1,780.89	5	1,423.11	5	1,065.34	5	707.94	5	350.17	5	20.07	5		5		5	
1/4	2,131.21	1/4	1,773.44	1/4	1,415.66	1/4	1,057.88	1/4	700.49	1/4	342.72	1/4	16.40	1/4		1/4		1/4	
1/2	2,123.76	1/2	1,765.98	1/2	1,408.21	1/2	1,050.43	1/2	693.03	1/2	335.27	1/2		1/2		1/2		1/2	
3/4	2,116.31	3/4	1,758.53	3/4	1,400.75	3/4	1,042.97	3/4	685.58	3/4	327.81	3/4		3/4		3/4		3/4	
6	2,108.85	6	1,751.08	6	1,393.30	6	1,035.52	6	678.13	6	320.36	6		6		6		6	
1/4	2,101.40	1/4	1,743.62	1/4	1,385.84	1/4	1,028.07	1/4	670.67	1/4	312.91	1/4		1/4		1/4		1/4	
1/2	2,093.95	1/2	1,736.17	1/2	1,378.39	1/2	1,020.62	1/2	663.22	1/2	305.45	1/2		1/2		1/2		1/2	
3/4	2,086.49	3/4	1,728.71	3/4	1,370.94	3/4	1,013.18	3/4	655.77	3/4	298.00	3/4		3/4		3/4		3/4	
7	2,079.04	7	1,721.26	7	1,363.48	7	1,005.74	7	648.31	7	290.54	7		7		7		7	
1/4	2,071.58	1/4	1,713.81	1/4	1,356.03	1/4	998.30	1/4	640.86	1/4	283.09	1/4		1/4		1/4		1/4	
1/2	2,064.13	1/2	1,706.35	1/2	1,348.58	1/2	990.86	1/2	633.41	1/2	275.64	1/2		1/2		1/2		1/2	
3/4	2,056.68	3/4	1,698.90	3/4	1,341.12	3/4	983.42	3/4	625.95	3/4	268.18	3/4		3/4		3/4		3/4	
8	2,049.22	8	1,691.45	8	1,333.67	8	975.97	8	618.50	8	260.73	8		8		8		8	
1/4	2,041.77	1/4	1,683.99	1/4	1,326.21	1/4	968.53	1/4	611.05	1/4	253.28	1/4		1/4		1/4		1/4	
1/2	2,034.32	1/2	1,676.54	1/2	1,318.76	1/2	961.09	1/2	603.59	1/2	245.82	1/2		1/2		1/2		1/2	
3/4	2,026.86	3/4	1,669.08	3/4	1,311.31	3/4	953.65	3/4	596.14	3/4	238.37	3/4		3/4		3/4		3/4	
9	2,019.41	9	1,661.63	9	1,303.85	9	946.21	9	588.68	9	230.92	9		9		9		9	
1/4	2,011.96	1/4	1,654.18	1/4	1,296.40	1/4	938.77	1/4	581.23	1/4	223.46	1/4		1/4		1/4		1/4	
1/2	2,004.50	1/2	1,646.72	1/2	1,288.95	1/2	931.32	1/2	573.78	1/2	216.01	1/2		1/2		1/2		1/2	
3/4	1,997.05	3/4	1,639.27	3/4	1,281.49	3/4	923.88	3/4	566.32	3/4	208.56	3/4		3/4		3/4		3/4	
10	1,989.59	10	1,631.82	10	1,274.04	10	916.44	10	558.87	10	201.10	10		10		10		10	
1/4	1,982.14	1/4	1,624.36	1/4	1,266.59	1/4	909.00	1/4	551.42	1/4	193.65	1/4		1/4		1/4		1/4	
1/2	1,974.69	1/2	1,616.91	1/2	1,259.13	1/2	901.56	1/2	543.96	1/2	186.20	1/2		1/2		1/2		1/2	
3/4	1,967.23	3/4	1,609.46	3/4	1,251.68	3/4	894.11	3/4	536.51	3/4	178.74	3/4		3/4		3/4		3/4	
11	1,959.78	11	1,602.00	11	1,244.22	11	886.67	11	529.06	11	171.29	11		11		11		11	
1/4	1,952.33	1/4	1,594.55	1/4	1,236.77	1/4	879.23	1/4	521.60	1/4	163.84	1/4		1/4		1/4		1/4	
1/2	1,944.87	1/2	1,587.09	1/2	1,229.32	1/2	871.79	1/2	514.15	1/2	156.38	1/2		1/2		1/2		1/2	
3/4	1,937.42	3/4	1,579.64	3/4	1,221.86	3/4	864.35	3/4	506.70	3/4	148.93	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 02/21/2013 CL - SW
CALCULATED: 02/22/2013 CL
PRINTED: 02/22/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 02/2013

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



BARGE "KIRBY 29105"

FUEL TANK INNAGE TABLE

CAPACITIES GIVEN IN WHOLE U.S. GALLONS

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	99	0	252	0	402	0		0		0		0		0		0	
1/4	0	1/4	102	1/4	255	1/4	405	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	1	1/2	105	1/2	258	1/2	408	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	2	3/4	108	3/4	262	3/4	410	3/4		3/4		3/4		3/4		3/4		3/4	
1	3	1	110	1	265	1	413	1		1		1		1		1		1	
1/4	4	1/4	113	1/4	268	1/4	416	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	5	1/2	116	1/2	271	1/2	418	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	6	3/4	119	3/4	275	3/4	421	3/4		3/4		3/4		3/4		3/4		3/4	
2	7	2	123	2	278	2	424	2		2		2		2		2		2	
1/4	9	1/4	126	1/4	281	1/4	426	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	10	1/2	129	1/2	285	1/2	429	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	12	3/4	132	3/4	288	3/4	431	3/4		3/4		3/4		3/4		3/4		3/4	
3	13	3	135	3	291	3	434	3		3		3		3		3		3	
1/4	15	1/4	138	1/4	294	1/4	436	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	17	1/2	141	1/2	298	1/2	439	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	18	3/4	144	3/4	301	3/4	441	3/4		3/4		3/4		3/4		3/4		3/4	
4	20	4	147	4	304	4	443	4		4		4		4		4		4	
1/4	22	1/4	150	1/4	308	1/4	446	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	24	1/2	154	1/2	311	1/2	448	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	26	3/4	157	3/4	314	3/4	450	3/4		3/4		3/4		3/4		3/4		3/4	
5	28	5	160	5	317	5	452	5		5		5		5		5		5	
1/4	30	1/4	163	1/4	320	1/4	455	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	32	1/2	166	1/2	324	1/2	457	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	34	3/4	170	3/4	327	3/4	459	3/4		3/4		3/4		3/4		3/4		3/4	
6	36	6	173	6	330	6	461	6		6		6		6		6		6	
1/4	39	1/4	176	1/4	333	1/4	463	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	41	1/2	179	1/2	336	1/2	465	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	43	3/4	182	3/4	339	3/4	467	3/4		3/4		3/4		3/4		3/4		3/4	
7	46	7	186	7	343	7	468	7		7		7		7		7		7	
1/4	48	1/4	189	1/4	346	1/4	470	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	50	1/2	192	1/2	349	1/2	472	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	53	3/4	196	3/4	352	3/4	474	3/4		3/4		3/4		3/4		3/4		3/4	
8	55	8	199	8	355	8	475	8		8		8		8		8		8	
1/4	58	1/4	202	1/4	358	1/4	477	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	60	1/2	205	1/2	361	1/2	478	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	63	3/4	209	3/4	364	3/4	480	3/4		3/4		3/4		3/4		3/4		3/4	
9	66	9	212	9	367	9	481	9		9		9		9		9		9	
1/4	68	1/4	215	1/4	370	1/4	482	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	71	1/2	219	1/2	373	1/2	483	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	74	3/4	222	3/4	376	3/4	484	3/4		3/4		3/4		3/4		3/4		3/4	
10	76	10	225	10	379	10	485	10		10		10		10		10		10	
1/4	79	1/4	228	1/4	382	1/4	486	1/4		1/4		1/4		1/4		1/4		1/4	
1/2	82	1/2	232	1/2	385	1/2	486	1/2		1/2		1/2		1/2		1/2		1/2	
3/4	85	3/4	235	3/4	388	3/4	487	3/4		3/4		3/4		3/4		3/4		3/4	
11	87	11	238	11	391	11		11		11		11		11		11		11	
1/4	90	1/4	242	1/4	394	1/4		1/4		1/4		1/4		1/4		1/4		1/4	
1/2	93	1/2	245	1/2	397	1/2		1/2		1/2		1/2		1/2		1/2		1/2	
3/4	96	3/4	248	3/4	399	3/4		3/4		3/4		3/4		3/4		3/4		3/4	

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

STRAPPED: 03/21/2018 CL
CALCULATED: 03/21/2018 CL
ISSUED: 03/21/2018 CL

PRECISION MEASUREMENT
& ANALYSIS, INC.

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2018

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