



BARGE "KIRBY 29110"

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	01-1/4	- 01-1/4	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"

March 20, 2013

PRECISION MEASUREMENT
 & ANALYSIS, INC.

P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 29110"

1 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08 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	IN	0
1/4		1/4		1/4		1/4		1/4	4,647.41	1/4	4,309.21	1/4	3,954.49	1/4	3,583.58	1/4	3,207.13	1/4	2,829.06		
1/2		1/2		1/2		1/2		1/2	4,640.54	1/2	4,302.00	1/2	3,946.94	1/2	3,575.74	1/2	3,199.27	1/2	2,821.18		
3/4		3/4		3/4		3/4		3/4	4,633.65	3/4	4,294.76	3/4	3,939.35	3/4	3,567.90	3/4	3,191.39	3/4	2,813.31		
1		1		1		1		1	4,959.37	1	4,626.75	1	4,287.51	1	3,931.77	1	3,560.06	1	3,183.52	1	2,805.43
1/4		1/4		1/4		1/4		1/4	4,619.86	1/4	4,280.27	1/4	3,924.18	1/4	3,552.21	1/4	3,175.64	1/4	2,797.55		
1/2		1/2		1/2		1/2		1/2	4,948.61	1/2	4,612.97	1/2	4,273.03	1/2	3,916.60	1/2	3,544.37	1/2	3,167.76	1/2	2,789.68
3/4		3/4		3/4		3/4		3/4	4,941.93	3/4	4,606.04	3/4	4,265.76	3/4	3,908.98	3/4	3,536.53	3/4	3,159.89	3/4	2,781.80
1		1		1		1		1	4,935.25	1	4,599.12	1	4,258.49	1	3,901.37	1	3,528.69	1	3,152.01	1	2,773.92
1/4		1/4		1/4		1/4		1/4	4,928.57	1/4	4,592.20	1/4	4,251.23	1/4	3,893.75	1/4	3,520.85	1/4	3,144.13	1/4	2,766.05
1/2		1/2		1/2		1/2		1/2	4,921.89	1/2	4,585.28	1/2	4,243.96	1/2	3,886.13	1/2	3,513.00	1/2	3,136.26	1/2	2,758.17
3/4		3/4		3/4		3/4		3/4	4,914.28	3/4	4,578.33	3/4	4,236.67	3/4	3,878.50	3/4	3,505.16	3/4	3,128.38	3/4	2,750.29
1		1		1		1		1	4,906.67	1	4,571.37	1	4,229.37	1	3,870.86	1	3,497.32	1	3,120.50	1	2,742.42
1/4		1/4		1/4		1/4		1/4	4,899.06	1/4	4,564.42	1/4	4,222.08	1/4	3,863.22	1/4	3,489.48	1/4	3,112.63	1/4	2,734.54
1/2		1/2		1/2		1/2		1/2	4,891.44	1/2	4,557.47	1/2	4,214.78	1/2	3,855.58	1/2	3,481.64	1/2	3,104.75	1/2	2,726.66
3/4		3/4		3/4		3/4		3/4	4,883.60	3/4	4,550.49	3/4	4,207.46	3/4	3,847.91	3/4	3,473.79	3/4	3,096.87	3/4	2,718.79
1		1		1		1		1	4,875.76	1	4,543.51	1	4,200.13	1	3,840.24	1	3,465.95	1	3,089.00	1	2,710.91
1/4		1/4		1/4		1/4		1/4	4,867.92	1/4	4,536.53	1/4	4,192.81	1/4	3,832.57	1/4	3,458.11	1/4	3,081.12	1/4	2,703.03
1/2		1/2		1/2		1/2		1/2	4,860.08	1/2	4,529.55	1/2	4,185.48	1/2	3,824.91	1/2	3,450.27	1/2	3,073.24	1/2	2,695.16
3/4		3/4		3/4		3/4		3/4	4,852.67	3/4	4,522.54	3/4	4,178.13	3/4	3,817.21	3/4	3,442.43	3/4	3,065.36	3/4	2,687.28
1		1		1		1		1	4,845.26	1	4,515.53	1	4,170.78	1	3,809.51	1	3,434.58	1	3,057.49	1	2,679.40
1/4		1/4		1/4		1/4		1/4	4,837.85	1/4	4,508.52	1/4	4,163.42	1/4	3,801.82	1/4	3,426.74	1/4	3,049.61	1/4	2,671.52
1/2		1/2		1/2		1/2		1/2	4,830.44	1/2	4,501.51	1/2	4,156.07	1/2	3,794.12	1/2	3,418.90	1/2	3,041.73	1/2	2,663.65
3/4		3/4		3/4		3/4		3/4	4,823.75	3/4	4,494.47	3/4	4,148.69	3/4	3,786.39	3/4	3,411.06	3/4	3,033.86	3/4	2,655.77
1		1		1		1		1	4,817.05	1	4,487.44	1	4,141.31	1	3,778.67	1	3,403.22	1	3,025.98	1	2,647.89
1/4		1/4		1/4		1/4		1/4	4,810.36	1/4	4,480.40	1/4	4,133.92	1/4	3,770.94	1/4	3,395.38	1/4	3,018.10	1/4	2,640.02
1/2		1/2		1/2		1/2		1/2	4,803.66	1/2	4,473.36	1/2	4,126.54	1/2	3,763.22	1/2	3,387.53	1/2	3,010.23	1/2	2,632.14
3/4		3/4		3/4		3/4		3/4	4,796.94	3/4	4,466.29	3/4	4,119.13	3/4	3,755.46	3/4	3,379.69	3/4	3,002.35	3/4	2,624.26
1		1		1		1		1	4,790.22	1	4,459.23	1	4,111.72	1	3,747.71	1	3,371.85	1	2,994.47	1	2,616.39
1/4		1/4		1/4		1/4		1/4	4,783.49	1/4	4,452.16	1/4	4,104.31	1/4	3,739.95	1/4	3,364.01	1/4	2,986.60	1/4	2,608.51
1/2		1/2		1/2		1/2		1/2	4,776.77	1/2	4,445.09	1/2	4,096.90	1/2	3,732.20	1/2	3,356.17	1/2	2,978.72	1/2	2,600.63
3/4		3/4		3/4		3/4		3/4	4,770.02	3/4	4,437.99	3/4	4,089.46	3/4	3,724.41	3/4	3,348.32	3/4	2,970.84	3/4	2,592.76
1		1		1		1		1	4,763.26	1	4,430.90	1	4,082.02	1	3,716.63	1	3,340.48	1	2,962.97	1	2,584.88
1/4		1/4		1/4		1/4		1/4	4,756.51	1/4	4,423.80	1/4	4,074.58	1/4	3,708.85	1/4	3,332.64	1/4	2,955.09	1/4	2,577.00
1/2		1/2		1/2		1/2		1/2	4,749.76	1/2	4,416.71	1/2	4,067.14	1/2	3,701.06	1/2	3,324.80	1/2	2,947.21	1/2	2,569.13
3/4		3/4		3/4		3/4		3/4	4,742.97	3/4	4,409.58	3/4	4,059.67	3/4	3,693.25	3/4	3,316.96	3/4	2,939.34	3/4	2,561.25
1		1		1		1		1	4,736.19	1	4,402.45	1	4,052.20	1	3,685.44	1	3,309.11	1	2,931.46	1	2,553.37
1/4		1/4		1/4		1/4		1/4	4,729.41	1/4	4,395.33	1/4	4,044.73	1/4	3,677.62	1/4	3,301.27	1/4	2,923.58	1/4	2,545.50
1/2		1/2		1/2		1/2		1/2	4,722.63	1/2	4,388.20	1/2	4,037.27	1/2	3,669.81	1/2	3,293.43	1/2	2,915.71	1/2	2,537.62
3/4		3/4		3/4		3/4		3/4	4,715.82	3/4	4,381.05	3/4	4,029.77	3/4	3,661.98	3/4	3,285.59	3/4	2,907.83	3/4	2,529.74
1		1		1		1		1	4,709.01	1	4,373.89	1	4,022.27	1	3,654.14	1	3,277.75	1	2,899.95	1	2,521.87
1/4		1/4		1/4		1/4		1/4	4,702.19	1/4	4,366.74	1/4	4,014.77	1/4	3,646.31	1/4	3,269.90	1/4	2,892.08	1/4	2,513.99
1/2		1/2		1/2		1/2		1/2	4,695.38	1/2	4,359.59	1/2	4,007.27	1/2	3,638.47	1/2	3,262.06	1/2	2,884.20	1/2	2,506.11
3/4		3/4		3/4		3/4		3/4	4,688.54	3/4	4,352.40	3/4	3,999.74	3/4	3,630.63	3/4	3,254.22	3/4	2,876.32	3/4	2,498.24
1		1		1		1		1	4,681.70	1	4,345.22	1	3,992.22	1	3,622.79	1	3,246.38	1	2,868.44	1	2,490.36
1/4		1/4		1/4		1/4		1/4	4,674.86	1/4	4,338.03	1/4	3,984.69	1/4	3,614.95	1/4	3,238.54	1/4	2,860.57	1/4	2,482.48
1/2		1/2		1/2		1/2		1/2	4,668.02	1/2	4,330.85	1/2	3,977.16	1/2	3,607.11	1/2	3,230.70	1/2	2,852.69	1/2	2,474.60
3/4		3/4		3/4		3/4		3/4	4,661.15	3/4	4,323.64	3/4	3,969.61	3/4	3,599.26	3/4	3,222.84	3/4	2,844.81	3/4	2,466.73
1		1		1		1		1	4,654.28	1	4,316.42	1	3,962.05	1	3,591.42	1	3,214.98	1	2,836.94	1	2,458.85

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 29110"

1 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	2,450.97	0	2,072.89	0	1,694.80	0	1,317.91	0	940.79	0	562.71	0	209.49	0		0		0	
1/4	2,443.10	1/4	2,065.01	1/4	1,686.92	1/4	1,310.08	1/4	932.91	1/4	554.84	1/4	202.75	1/4	1/4	1/4		1/4	
1/2	2,435.22	1/2	2,057.13	1/2	1,679.05	1/2	1,302.25	1/2	925.04	1/2	546.97	1/2	196.12	1/2	1/2	1/2		1/2	
3/4	2,427.34	3/4	2,049.26	3/4	1,671.17	3/4	1,294.43	3/4	917.16	3/4	539.10	3/4	189.49	3/4	3/4	3/4		3/4	
1	2,419.47	1	2,041.38	1	1,663.29	1	1,286.60	1	909.28	1	531.24	1	182.86	1	1	1		1	
1/4	2,411.59	1/4	2,033.50	1/4	1,655.42	1/4	1,278.77	1/4	901.41	1/4	523.37	1/4	176.22	1/4	1/4	1/4		1/4	
1/2	2,403.71	1/2	2,025.63	1/2	1,647.54	1/2	1,270.94	1/2	893.53	1/2	515.55	1/2	169.70	1/2	1/2	1/2		1/2	
3/4	2,395.84	3/4	2,017.75	3/4	1,639.66	3/4	1,263.12	3/4	885.65	3/4	507.73	3/4	163.18	3/4	3/4	3/4		3/4	
2	2,387.96	2	2,009.87	2	1,631.79	2	1,255.29	2	877.78	2	499.92	2	156.66	2	2	2		2	
1/4	2,380.08	1/4	2,002.00	1/4	1,623.91	1/4	1,247.46	1/4	869.90	1/4	492.10	1/4	150.14	1/4	1/4	1/4		1/4	
1/2	2,372.21	1/2	1,994.12	1/2	1,616.03	1/2	1,239.63	1/2	862.02	1/2	484.37	1/2	143.74	1/2	1/2	1/2		1/2	
3/4	2,364.33	3/4	1,986.24	3/4	1,608.16	3/4	1,231.81	3/4	854.15	3/4	476.65	3/4	137.34	3/4	3/4	3/4		3/4	
3	2,356.45	3	1,978.37	3	1,600.28	3	1,223.98	3	846.27	3	468.92	3	130.93	3	3	3		3	
1/4	2,348.58	1/4	1,970.49	1/4	1,592.40	1/4	1,216.15	1/4	838.39	1/4	461.19	1/4	124.53	1/4	1/4	1/4		1/4	
1/2	2,340.70	1/2	1,962.61	1/2	1,584.53	1/2	1,208.32	1/2	830.52	1/2	453.58	1/2	118.24	1/2	1/2	1/2		1/2	
3/4	2,332.82	3/4	1,954.74	3/4	1,576.65	3/4	1,200.50	3/4	822.64	3/4	445.96	3/4	111.96	3/4	3/4	3/4		3/4	
4	2,324.95	4	1,946.86	4	1,568.77	4	1,192.67	4	814.76	4	438.34	4	105.68	4	4	4		4	
1/4	2,317.07	1/4	1,938.98	1/4	1,560.90	1/4	1,184.84	1/4	806.89	1/4	430.73	1/4	99.40	1/4	1/4	1/4		1/4	
1/2	2,309.19	1/2	1,931.11	1/2	1,553.03	1/2	1,177.00	1/2	799.01	1/2	423.22	1/2	93.24	1/2	1/2	1/2		1/2	
3/4	2,301.32	3/4	1,923.23	3/4	1,545.16	3/4	1,169.15	3/4	791.14	3/4	415.71	3/4	87.09	3/4	3/4	3/4		3/4	
5	2,293.44	5	1,915.35	5	1,537.30	5	1,161.30	5	783.26	5	408.20	5	80.93	5	5	5		5	
1/4	2,285.56	1/4	1,907.48	1/4	1,529.43	1/4	1,153.46	1/4	775.38	1/4	400.70	1/4	74.78	1/4	1/4	1/4		1/4	
1/2	2,277.68	1/2	1,899.60	1/2	1,521.59	1/2	1,145.58	1/2	767.51	1/2	393.30	1/2	68.77	1/2	1/2	1/2		1/2	
3/4	2,269.81	3/4	1,891.72	3/4	1,513.74	3/4	1,137.71	3/4	759.63	3/4	385.90	3/4	62.75	3/4	3/4	3/4		3/4	
6	2,261.93	6	1,883.84	6	1,505.89	6	1,129.83	6	751.75	6	378.50	6	56.74	6	6	6		6	
1/4	2,254.05	1/4	1,875.97	1/4	1,498.04	1/4	1,121.95	1/4	743.88	1/4	371.11	1/4	50.73	1/4	1/4	1/4		1/4	
1/2	2,246.18	1/2	1,868.09	1/2	1,490.20	1/2	1,114.08	1/2	736.00	1/2	363.82	1/2	45.31	1/2	1/2	1/2		1/2	
3/4	2,238.30	3/4	1,860.21	3/4	1,482.36	3/4	1,106.20	3/4	728.12	3/4	356.53	3/4	39.89	3/4	3/4	3/4		3/4	
7	2,230.42	7	1,852.34	7	1,474.52	7	1,098.32	7	720.25	7	349.24	7	34.47	7	7	7		7	
1/4	2,222.55	1/4	1,844.46	1/4	1,466.67	1/4	1,090.45	1/4	712.37	1/4	341.95	1/4	29.05	1/4	1/4	1/4		1/4	
1/2	2,214.67	1/2	1,836.58	1/2	1,458.84	1/2	1,082.57	1/2	704.49	1/2	334.77	1/2	25.09	1/2	1/2	1/2		1/2	
3/4	2,206.79	3/4	1,828.71	3/4	1,451.00	3/4	1,074.69	3/4	696.62	3/4	327.59	3/4	21.12	3/4	3/4	3/4		3/4	
8	2,198.92	8	1,820.83	8	1,443.17	8	1,066.82	8	688.74	8	320.42	8	17.16	8	8	8		8	
1/4	2,191.04	1/4	1,812.95	1/4	1,435.34	1/4	1,058.94	1/4	680.86	1/4	313.24	1/4	13.19	1/4	1/4	1/4		1/4	
1/2	2,183.16	1/2	1,805.08	1/2	1,427.50	1/2	1,051.06	1/2	672.99	1/2	306.17	1/2		1/2	1/2	1/2		1/2	
3/4	2,175.29	3/4	1,797.20	3/4	1,419.67	3/4	1,043.19	3/4	665.11	3/4	299.10	3/4		3/4	3/4	3/4		3/4	
9	2,167.41	9	1,789.32	9	1,411.84	9	1,035.31	9	657.23	9	292.03	9		9	9	9		9	
1/4	2,159.53	1/4	1,781.45	1/4	1,404.01	1/4	1,027.43	1/4	649.36	1/4	284.96	1/4		1/4	1/4	1/4		1/4	
1/2	2,151.66	1/2	1,773.57	1/2	1,396.18	1/2	1,019.56	1/2	641.48	1/2	278.00	1/2		1/2	1/2	1/2		1/2	
3/4	2,143.78	3/4	1,765.69	3/4	1,388.35	3/4	1,011.68	3/4	633.60	3/4	271.04	3/4		3/4	3/4	3/4		3/4	
10	2,135.90	10	1,757.82	10	1,380.53	10	1,003.80	10	625.73	10	264.08	10		10	10	10		10	
1/4	2,128.03	1/4	1,749.94	1/4	1,372.70	1/4	995.93	1/4	617.85	1/4	257.12	1/4		1/4	1/4	1/4		1/4	
1/2	2,120.15	1/2	1,742.06	1/2	1,364.87	1/2	988.05	1/2	609.97	1/2	250.27	1/2		1/2	1/2	1/2		1/2	
3/4	2,112.27	3/4	1,734.19	3/4	1,357.04	3/4	980.17	3/4	602.10	3/4	243.42	3/4		3/4	3/4	3/4		3/4	
11	2,104.40	11	1,726.31	11	1,349.22	11	972.30	11	594.22	11	236.57	11		11	11	11		11	
1/4	2,096.52	1/4	1,718.43	1/4	1,341.39	1/4	964.42	1/4	586.34	1/4	229.72	1/4		1/4	1/4	1/4		1/4	
1/2	2,088.64	1/2	1,710.56	1/2	1,333.56	1/2	956.54	1/2	578.47	1/2	222.97	1/2		1/2	1/2	1/2		1/2	
3/4	2,080.76	3/4	1,702.68	3/4	1,325.74	3/4	948.67	3/4	570.59	3/4	216.23	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "KIRBY 29110"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

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
1/4		1/4		1/4		1/4	4,960.58	1/4	4,628.00	1/4	4,288.80	1/4	3,933.09	1/4	3,561.43	1/4	3,184.93	1/4	2,806.89
1/2		1/2		1/2		1/2	4,955.20	1/2	4,621.11	1/2	4,281.56	1/2	3,925.51	1/2	3,553.58	1/2	3,177.05	1/2	2,799.01
3/4		3/4		3/4		3/4	4,949.82	3/4	4,614.22	3/4	4,274.32	3/4	3,917.93	3/4	3,545.74	3/4	3,169.18	3/4	2,791.13
1	1	1	1	1	1	1	4,943.14	1	4,607.29	1	4,277.05	1	3,910.31	1	3,537.90	1	3,161.30	1	2,783.26
1/4		1/4		1/4		1/4	4,936.46	1/4	4,600.37	1/4	4,259.78	1/4	3,902.70	1/4	3,530.06	1/4	3,153.42	1/4	2,775.38
1/2		1/2		1/2		1/2	4,929.79	1/2	4,593.45	1/2	4,252.52	1/2	3,895.08	1/2	3,522.22	1/2	3,145.55	1/2	2,767.51
3/4		3/4		3/4		3/4	4,923.11	3/4	4,586.53	3/4	4,245.25	3/4	3,887.47	3/4	3,514.38	3/4	3,137.67	3/4	2,759.63
2	2	2	2	2	2	2	4,915.50	2	4,579.58	2	4,237.96	2	3,879.83	2	3,506.54	2	3,129.80	2	2,751.75
1/4		1/4		1/4		1/4	4,907.89	1/4	4,572.63	1/4	4,230.66	1/4	3,872.19	1/4	3,498.70	1/4	3,121.92	1/4	2,743.88
1/2		1/2		1/2		1/2	4,900.27	1/2	4,565.68	1/2	4,223.37	1/2	3,864.55	1/2	3,490.86	1/2	3,114.05	1/2	2,736.00
3/4		3/4		3/4		3/4	4,892.66	3/4	4,558.73	3/4	4,216.08	3/4	3,856.91	3/4	3,483.02	3/4	3,106.17	3/4	2,728.13
3	3	3	3	3	3	3	4,884.82	3	4,551.75	3	4,208.75	3	3,849.25	3	3,475.17	3	3,098.29	3	2,720.25
1/4		1/4		1/4		1/4	4,876.98	1/4	4,544.77	1/4	4,201.43	1/4	3,841.58	1/4	3,467.33	1/4	3,090.42	1/4	2,712.37
1/2		1/2		1/2		1/2	4,869.14	1/2	4,537.79	1/2	4,194.11	1/2	3,833.91	1/2	3,459.49	1/2	3,082.54	1/2	2,704.50
3/4		3/4		3/4		3/4	4,861.30	3/4	4,530.81	3/4	4,186.78	3/4	3,826.25	3/4	3,451.65	3/4	3,074.67	3/4	2,696.62
4	4	4	4	4	4	4	4,853.89	4	4,523.80	4	4,179.43	4	3,818.55	4	3,443.81	4	3,066.79	4	2,688.75
1/4		1/4		1/4		1/4	4,846.48	1/4	4,516.79	1/4	4,172.08	1/4	3,810.85	1/4	3,435.97	1/4	3,058.91	1/4	2,680.87
1/2		1/2		1/2		1/2	4,839.08	1/2	4,509.78	1/2	4,164.73	1/2	3,803.16	1/2	3,428.13	1/2	3,051.04	1/2	2,673.00
3/4		3/4		3/4		3/4	4,831.67	3/4	4,502.77	3/4	4,157.37	3/4	3,795.46	3/4	3,420.29	3/4	3,043.16	3/4	2,665.12
5	5	5	5	5	5	5	4,824.97	5	4,495.74	5	4,149.99	5	3,787.74	5	3,412.45	5	3,035.29	5	2,657.24
1/4		1/4		1/4		1/4	4,818.28	1/4	4,488.70	1/4	4,142.61	1/4	3,780.01	1/4	3,404.61	1/4	3,027.41	1/4	2,649.37
1/2		1/2		1/2		1/2	4,811.59	1/2	4,481.66	1/2	4,135.23	1/2	3,772.29	1/2	3,396.76	1/2	3,019.53	1/2	2,641.49
3/4		3/4		3/4		3/4	4,804.89	3/4	4,474.63	3/4	4,127.85	3/4	3,764.56	3/4	3,388.92	3/4	3,011.66	3/4	2,633.62
6	6	6	6	6	6	6	4,798.17	6	4,467.56	6	4,120.44	6	3,756.81	6	3,381.08	6	3,003.78	6	2,625.74
1/4		1/4		1/4		1/4	4,791.45	1/4	4,460.49	1/4	4,113.03	1/4	3,749.05	1/4	3,373.24	1/4	2,995.91	1/4	2,617.86
1/2		1/2		1/2		1/2	4,784.72	1/2	4,453.43	1/2	4,105.62	1/2	3,741.30	1/2	3,365.40	1/2	2,988.03	1/2	2,609.99
3/4		3/4		3/4		3/4	4,778.00	3/4	4,446.36	3/4	4,098.21	3/4	3,733.55	3/4	3,357.56	3/4	2,980.16	3/4	2,602.11
7	7	7	7	7	7	7	4,771.25	7	4,439.26	7	4,090.77	7	3,725.76	7	3,349.72	7	2,972.28	7	2,594.24
1/4		1/4		1/4		1/4	4,764.50	1/4	4,432.17	1/4	4,083.33	1/4	3,717.98	1/4	3,341.88	1/4	2,964.40	1/4	2,586.36
1/2		1/2		1/2		1/2	4,757.74	1/2	4,425.07	1/2	4,075.89	1/2	3,710.20	1/2	3,334.04	1/2	2,956.53	1/2	2,578.48
3/4		3/4		3/4		3/4	4,750.99	3/4	4,417.98	3/4	4,068.45	3/4	3,702.42	3/4	3,326.20	3/4	2,948.65	3/4	2,570.61
8	8	8	8	8	8	8	4,744.21	8	4,410.85	8	4,060.98	8	3,694.61	8	3,318.35	8	2,940.78	8	2,562.73
1/4		1/4		1/4		1/4	4,737.43	1/4	4,403.73	1/4	4,053.52	1/4	3,686.79	1/4	3,310.51	1/4	2,932.90	1/4	2,554.86
1/2		1/2		1/2		1/2	4,730.65	1/2	4,396.60	1/2	4,046.05	1/2	3,678.98	1/2	3,302.67	1/2	2,925.02	1/2	2,546.98
3/4		3/4		3/4		3/4	4,723.87	3/4	4,389.48	3/4	4,038.58	3/4	3,671.17	3/4	3,294.83	3/4	2,917.15	3/4	2,539.10
9	9	9	9	9	9	9	4,717.06	9	4,382.32	9	4,031.08	9	3,663.34	9	3,286.99	9	2,909.27	9	2,531.23
1/4		1/4		1/4		1/4	4,710.24	1/4	4,375.17	1/4	4,023.59	1/4	3,655.50	1/4	3,279.15	1/4	2,901.40	1/4	2,523.35
1/2		1/2		1/2		1/2	4,703.43	1/2	4,368.02	1/2	4,016.09	1/2	3,647.67	1/2	3,271.31	1/2	2,893.52	1/2	2,515.48
3/4		3/4		3/4		3/4	4,696.62	3/4	4,360.86	3/4	4,008.59	3/4	3,639.84	3/4	3,263.47	3/4	2,885.64	3/4	2,507.60
10	10	10	10	10	10	10	4,689.78	10	4,353.68	10	4,001.06	10	3,631.99	10	3,255.63	10	2,877.77	10	2,499.73
1/4		1/4		1/4		1/4	4,682.94	1/4	4,346.50	1/4	3,993.54	1/4	3,624.15	1/4	3,247.79	1/4	2,869.89	1/4	2,491.85
1/2		1/2		1/2		1/2	4,676.11	1/2	4,339.31	1/2	3,986.01	1/2	3,616.31	1/2	3,239.94	1/2	2,862.02	1/2	2,483.97
3/4		3/4		3/4		3/4	4,669.27	3/4	4,332.13	3/4	3,978.49	3/4	3,608.47	3/4	3,232.10	3/4	2,854.14	3/4	2,476.10
11	11	11	11	11	11	11	4,662.40	11	4,324.92	11	3,970.93	11	3,600.63	11	3,224.25	11	2,846.26	11	2,468.22
1/4		1/4		1/4		1/4	4,655.53	1/4	4,317.71	1/4	3,963.37	1/4	3,592.79	1/4	3,216.39	1/4	2,838.39	1/4	2,460.35
1/2		1/2		1/2		1/2	4,648.66	1/2	4,310.50	1/2	3,955.82	1/2	3,584.95	1/2	3,208.54	1/2	2,830.51	1/2	2,452.47
3/4		3/4		3/4		3/4	4,641.79	3/4	4,303.28	3/4	3,948.26	3/4	3,577.11	3/4	3,200.68	3/4	2,822.64	3/4	2,444.59

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 29110"

1 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-07 3/4"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	2,436.72	0	2,058.67	0	1,680.63	0	1,302.59	0	924.82	0	546.91	0	196.10	0		0		0	
1/4	2,428.84	1/4	2,050.80	1/4	1,672.76	1/4	1,294.71	1/4	916.95	1/4	539.04	1/4	189.47	1/4	1/4	1/4		1/4	1/4
1/2	2,420.97	1/2	2,042.92	1/2	1,664.88	1/2	1,286.84	1/2	909.09	1/2	531.18	1/2	182.83	1/2	1/2	1/2		1/2	1/2
3/4	2,413.09	3/4	2,035.05	3/4	1,657.00	3/4	1,278.96	3/4	901.23	3/4	523.31	3/4	176.20	3/4	3/4	3/4		3/4	3/4
1	2,405.21	1	2,027.17	1	1,649.13	1	1,271.08	1	893.36	1	515.49	1	169.68	1	1	1		1	1
1/4	2,397.34	1/4	2,019.30	1/4	1,641.25	1/4	1,263.21	1/4	885.50	1/4	507.68	1/4	163.17	1/4	1/4	1/4		1/4	1/4
1/2	2,389.46	1/2	2,011.42	1/2	1,633.38	1/2	1,255.33	1/2	877.64	1/2	499.86	1/2	156.65	1/2	1/2	1/2		1/2	1/2
3/4	2,381.59	3/4	2,003.54	3/4	1,625.50	3/4	1,247.46	3/4	869.77	3/4	492.04	3/4	150.13	3/4	3/4	3/4		3/4	3/4
2	2,373.71	2	1,995.67	2	1,617.62	2	1,239.58	2	861.90	2	484.32	2	143.72	2	2	2		2	2
1/4	2,365.83	1/4	1,987.79	1/4	1,609.75	1/4	1,231.71	1/4	854.04	1/4	476.59	1/4	137.32	1/4	1/4	1/4		1/4	1/4
1/2	2,357.96	1/2	1,979.92	1/2	1,601.87	1/2	1,223.83	1/2	846.17	1/2	468.87	1/2	130.92	1/2	1/2	1/2		1/2	1/2
3/4	2,350.08	3/4	1,972.04	3/4	1,594.00	3/4	1,215.95	3/4	838.30	3/4	461.14	3/4	124.51	3/4	3/4	3/4		3/4	3/4
3	2,342.21	3	1,964.16	3	1,586.12	3	1,208.08	3	830.42	3	453.52	3	118.23	3	3	3		3	3
1/4	2,334.33	1/4	1,956.29	1/4	1,578.24	1/4	1,200.20	1/4	822.55	1/4	445.91	1/4	111.95	1/4	1/4	1/4		1/4	1/4
1/2	2,326.46	1/2	1,948.41	1/2	1,570.37	1/2	1,192.33	1/2	814.67	1/2	438.29	1/2	105.67	1/2	1/2	1/2		1/2	1/2
3/4	2,318.58	3/4	1,940.54	3/4	1,562.49	3/4	1,184.45	3/4	806.80	3/4	430.68	3/4	99.38	3/4	3/4	3/4		3/4	3/4
4	2,310.70	4	1,932.66	4	1,554.62	4	1,176.57	4	798.92	4	423.17	4	93.23	4	4	4		4	4
1/4	2,302.83	1/4	1,924.78	1/4	1,546.74	1/4	1,168.70	1/4	791.04	1/4	415.66	1/4	87.08	1/4	1/4	1/4		1/4	1/4
1/2	2,294.95	1/2	1,916.91	1/2	1,538.87	1/2	1,160.82	1/2	783.17	1/2	408.16	1/2	80.92	1/2	1/2	1/2		1/2	1/2
3/4	2,287.08	3/4	1,909.03	3/4	1,530.99	3/4	1,152.95	3/4	775.29	3/4	400.65	3/4	74.77	3/4	3/4	3/4		3/4	3/4
5	2,279.20	5	1,901.16	5	1,523.11	5	1,145.07	5	767.42	5	393.25	5	68.76	5	5	5		5	5
1/4	2,271.32	1/4	1,893.28	1/4	1,515.24	1/4	1,137.19	1/4	759.54	1/4	385.86	1/4	62.75	1/4	1/4	1/4		1/4	1/4
1/2	2,263.45	1/2	1,885.41	1/2	1,507.36	1/2	1,129.32	1/2	751.67	1/2	378.46	1/2	56.74	1/2	1/2	1/2		1/2	1/2
3/4	2,255.57	3/4	1,877.53	3/4	1,499.49	3/4	1,121.44	3/4	743.79	3/4	371.06	3/4	50.72	3/4	3/4	3/4		3/4	3/4
6	2,247.70	6	1,869.65	6	1,491.61	6	1,113.57	6	735.91	6	363.78	6	45.31	6	6	6		6	6
1/4	2,239.82	1/4	1,861.78	1/4	1,483.73	1/4	1,105.70	1/4	728.04	1/4	356.49	1/4	39.89	1/4	1/4	1/4		1/4	1/4
1/2	2,231.94	1/2	1,853.90	1/2	1,475.86	1/2	1,097.83	1/2	720.16	1/2	349.20	1/2	34.47	1/2	1/2	1/2		1/2	1/2
3/4	2,224.07	3/4	1,846.03	3/4	1,467.98	3/4	1,089.96	3/4	712.29	3/4	341.91	3/4	29.05	3/4	3/4	3/4		3/4	3/4
7	2,216.19	7	1,838.15	7	1,460.11	7	1,082.09	7	704.41	7	334.73	7	25.09	7	7	7		7	7
1/4	2,208.32	1/4	1,830.27	1/4	1,452.23	1/4	1,074.23	1/4	696.54	1/4	327.56	1/4	21.12	1/4	1/4	1/4		1/4	1/4
1/2	2,200.44	1/2	1,822.40	1/2	1,444.35	1/2	1,066.37	1/2	688.66	1/2	320.38	1/2	17.16	1/2	1/2	1/2		1/2	1/2
3/4	2,192.57	3/4	1,814.52	3/4	1,436.48	3/4	1,058.50	3/4	680.78	3/4	313.20	3/4	13.19	3/4	3/4	3/4		3/4	3/4
8	2,184.69	8	1,806.65	8	1,428.60	8	1,050.64	8	672.91	8	306.13	8		8	8	8		8	8
1/4	2,176.81	1/4	1,798.77	1/4	1,420.73	1/4	1,042.78	1/4	665.03	1/4	299.06	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,168.94	1/2	1,790.89	1/2	1,412.85	1/2	1,034.91	1/2	657.16	1/2	291.99	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,161.06	3/4	1,783.02	3/4	1,404.98	3/4	1,027.05	3/4	649.28	3/4	284.93	3/4		3/4	3/4	3/4		3/4	3/4
9	2,153.19	9	1,775.14	9	1,397.10	9	1,019.18	9	641.41	9	277.97	9		9	9	9		9	9
1/4	2,145.31	1/4	1,767.27	1/4	1,389.22	1/4	1,011.32	1/4	633.53	1/4	271.01	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,137.43	1/2	1,759.39	1/2	1,381.35	1/2	1,003.46	1/2	625.65	1/2	264.05	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,129.56	3/4	1,751.51	3/4	1,373.47	3/4	995.59	3/4	617.78	3/4	257.09	3/4		3/4	3/4	3/4		3/4	3/4
10	2,121.68	10	1,743.64	10	1,365.60	10	987.73	10	609.90	10	250.24	10		10	10	10		10	10
1/4	2,113.81	1/4	1,735.76	1/4	1,357.72	1/4	979.86	1/4	602.03	1/4	243.39	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,105.93	1/2	1,727.89	1/2	1,349.84	1/2	972.00	1/2	594.15	1/2	236.54	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,098.05	3/4	1,720.01	3/4	1,341.97	3/4	964.14	3/4	586.28	3/4	229.69	3/4		3/4	3/4	3/4		3/4	3/4
11	2,090.18	11	1,712.14	11	1,334.09	11	956.27	11	578.40	11	222.95	11		11	11	11		11	11
1/4	2,082.30	1/4	1,704.26	1/4	1,326.22	1/4	948.41	1/4	570.52	1/4	216.21	1/4		1/4	1/4	1/4		1/4	1/4
1/2	2,074.43	1/2	1,696.38	1/2	1,318.34	1/2	940.55	1/2	562.65	1/2	209.47	1/2		1/2	1/2	1/2		1/2	1/2
3/4	2,066.55	3/4	1,688.51	3/4	1,310.46	3/4	932.68	3/4	554.77	3/4	202.73	3/4		3/4	3/4	3/4		3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

PRECISION MEASUREMENT
& ANALYSIS, INC.
P.O. Box 2092
Pearland, Texas 77588
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BARGE "KIRBY 29110"

2 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.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,462.79		4,139.92		3,801.91		3,449.11		3,091.47		2,732.34		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,456.21	1/4	4,133.02	1/4	3,794.70	1/4	3,441.66	1/4	3,083.99	1/4	2,724.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,766.70	1/2	4,449.63	1/2	4,126.12	1/2	3,787.48	1/2	3,434.21	1/2	3,076.50	1/2	2,717.38
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,761.59	3/4	4,443.05	3/4	4,119.22	3/4	3,780.27	3/4	3,426.76	3/4	3,069.02	3/4	2,709.90
1	1	1	1	1	1	1	1	1	4,436.47	1	4,112.32	1	3,773.05	1	3,419.31	1	3,061.54	1	2,702.41		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,750.13	1/4	4,429.86	1/4	4,105.40	1/4	3,765.81	1/4	3,411.86	1/4	3,054.06	1/4	2,694.93
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,743.79	1/2	4,423.25	1/2	4,098.47	1/2	3,758.57	1/2	3,404.41	1/2	3,046.58	1/2	2,687.45
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,737.45	3/4	4,416.65	3/4	4,091.55	3/4	3,751.33	3/4	3,396.96	3/4	3,039.10	3/4	2,679.97
2	2	2	2	2	2	2	2	2	4,731.10	2	4,410.04	2	4,084.63	2	3,744.09	2	3,389.51	2	3,031.61	2	2,672.49
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,723.87	1/4	4,403.41	1/4	4,077.68	1/4	3,736.82	1/4	3,382.07	1/4	3,024.13	1/4	2,665.01
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,716.64	1/2	4,396.77	1/2	4,070.73	1/2	3,729.56	1/2	3,374.62	1/2	3,016.65	1/2	2,657.52
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,709.42	3/4	4,390.14	3/4	4,063.79	3/4	3,722.29	3/4	3,367.17	3/4	3,009.17	3/4	2,650.04
3	3	3	3	3	3	3	3	3	4,702.19	3	4,383.51	3	4,056.84	3	3,715.03	3	3,359.72	3	3,001.69	3	2,642.56
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,694.74	1/4	4,376.85	1/4	4,049.86	1/4	3,707.74	1/4	3,352.27	1/4	2,994.20	1/4	2,635.08
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,687.29	1/2	4,370.19	1/2	4,042.89	1/2	3,700.45	1/2	3,344.82	1/2	2,986.72	1/2	2,627.60
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,679.84	3/4	4,363.53	3/4	4,035.91	3/4	3,693.16	3/4	3,337.37	3/4	2,979.24	3/4	2,620.11
4	4	4	4	4	4	4	4	4	4,672.39	4	4,356.87	4	4,028.94	4	3,685.87	4	3,329.92	4	2,971.76	4	2,612.63
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,665.33	1/4	4,350.18	1/4	4,021.93	1/4	3,678.55	1/4	3,322.47	1/4	2,964.28	1/4	2,605.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,658.28	1/2	4,343.50	1/2	4,014.93	1/2	3,671.24	1/2	3,315.02	1/2	2,956.80	1/2	2,597.67
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,651.23	3/4	4,336.81	3/4	4,007.93	3/4	3,663.92	3/4	3,307.57	3/4	2,949.31	3/4	2,590.19
5	5	5	5	5	5	5	5	5	4,644.18	5	4,330.12	5	4,000.93	5	3,656.60	5	3,300.12	5	2,941.83	5	2,582.71
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.78	1/4	4,323.41	1/4	3,993.90	1/4	3,649.26	1/4	3,292.67	1/4	2,934.35	1/4	2,575.22
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,631.38	1/2	4,316.70	1/2	3,986.88	1/2	3,641.92	1/2	3,285.22	1/2	2,926.87	1/2	2,567.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.98	3/4	4,309.98	3/4	3,979.85	3/4	3,634.57	3/4	3,277.77	3/4	2,919.39	3/4	2,560.26
6	6	6	6	6	6	6	6	6	4,618.59	6	4,303.27	6	3,972.82	6	3,627.23	6	3,270.32	6	2,911.91	6	2,552.78
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,612.16	1/4	4,296.53	1/4	3,965.76	1/4	3,619.86	1/4	3,262.87	1/4	2,904.42	1/4	2,545.30
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,605.74	1/2	4,289.79	1/2	3,958.71	1/2	3,612.49	1/2	3,255.42	1/2	2,896.94	1/2	2,537.82
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,599.31	3/4	4,283.05	3/4	3,951.66	3/4	3,605.12	3/4	3,247.97	3/4	2,889.46	3/4	2,530.33
7	7	7	7	7	7	7	7	7	4,592.89	7	4,276.31	7	3,944.60	7	3,597.75	7	3,240.52	7	2,881.98	7	2,522.85
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,586.44	1/4	4,269.55	1/4	3,937.52	1/4	3,590.36	1/4	3,233.07	1/4	2,874.50	1/4	2,515.37
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,579.98	1/2	4,262.78	1/2	3,930.44	1/2	3,582.96	1/2	3,225.62	1/2	2,867.01	1/2	2,507.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,573.53	3/4	4,256.02	3/4	3,923.36	3/4	3,575.56	3/4	3,218.17	3/4	2,859.53	3/4	2,500.41
8	8	8	8	8	8	8	8	8	4,567.08	8	4,249.25	8	3,916.28	8	3,568.17	8	3,210.72	8	2,852.05	8	2,492.92
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,560.60	1/4	4,242.46	1/4	3,909.17	1/4	3,560.75	1/4	3,203.27	1/4	2,844.57	1/4	2,485.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,554.13	1/2	4,235.66	1/2	3,902.06	1/2	3,553.32	1/2	3,195.82	1/2	2,837.09	1/2	2,477.96
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,547.65	3/4	4,228.87	3/4	3,894.95	3/4	3,545.90	3/4	3,188.37	3/4	2,829.61	3/4	2,470.48
9	9	9	9	9	9	9	9	9	4,541.17	9	4,222.08	9	3,887.85	9	3,538.48	9	3,180.92	9	2,822.12	9	2,463.00
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,534.67	1/4	4,215.26	1/4	3,880.71	1/4	3,531.03	1/4	3,173.47	1/4	2,814.64	1/4	2,455.52
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,528.16	1/2	4,208.44	1/2	3,873.58	1/2	3,523.59	1/2	3,166.02	1/2	2,807.16	1/2	2,448.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,521.65	3/4	4,201.62	3/4	3,866.44	3/4	3,516.15	3/4	3,158.57	3/4	2,799.68	3/4	2,440.55
10	10	10	10	10	10	10	10	10	4,515.15	10	4,194.80	10	3,859.31	10	3,508.71	10	3,151.12	10	2,792.20	10	2,433.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,508.62	1/4	4,187.95	1/4	3,852.15	1/4	3,501.26	1/4	3,143.67	1/4	2,784.71	1/4	2,425.59
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,502.09	1/2	4,181.11	1/2	3,844.99	1/2	3,493.81	1/2	3,136.22	1/2	2,777.23	1/2	2,418.11
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,495.56	3/4	4,174.26	3/4	3,837.83	3/4	3,486.36	3/4	3,128.78	3/4	2,769.75	3/4	2,410.62
11	11	11	11	11	11	11	11	11	4,489.02	11	4,167.41	11	3,830.66	11	3,478.91	11	3,121.33	11	2,762.27	11	2,403.14
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,482.47	1/4	4,160.54	1/4	3,823.48	1/4	3,471.46	1/4	3,113.86	1/4	2,754.79	1/4	2,395.66
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,475.91	1/2	4,153.67	1/2	3,816.29	1/2	3,464.01	1/2	3,106.40	1/2	2,747.31	1/2	2,388.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,469.35	3/4	4,146.79	3/4	3,809.10	3/4	3,456.56	3/4	3,098.93	3/4	2,739.82	3/4	2,380.70

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 29110"

2 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	2,373.22	0	2,014.09	0	1,654.96	0	1,304.18	0	959.25	0	602.09	0	242.98	0		0		0	
1/4	2,365.73	1/4	2,006.61	1/4	1,647.48	1/4	1,296.98	1/4	952.07	1/4	594.61	1/4	235.49	1/4	1/4	1/4		1/4	
1/2	2,358.25	1/2	1,999.13	1/2	1,640.00	1/2	1,289.79	1/2	944.89	1/2	587.13	1/2	228.01	1/2	1/2	1/2		1/2	
3/4	2,350.77	3/4	1,991.64	3/4	1,632.52	3/4	1,282.59	3/4	937.71	3/4	579.65	3/4	220.53	3/4	3/4	3/4		3/4	
1	2,343.29	1	1,984.16	1	1,625.04	1	1,275.39	1	930.53	1	572.17	1	213.05	1	1	1		1	
1/4	2,335.81	1/4	1,976.68	1/4	1,617.55	1/4	1,268.19	1/4	923.24	1/4	564.69	1/4	205.57	1/4	1/4	1/4		1/4	
1/2	2,328.32	1/2	1,969.20	1/2	1,610.07	1/2	1,260.99	1/2	915.94	1/2	557.20	1/2	198.09	1/2	1/2	1/2		1/2	
3/4	2,320.84	3/4	1,961.72	3/4	1,602.59	3/4	1,253.79	3/4	908.65	3/4	549.72	3/4	190.61	3/4	3/4	3/4		3/4	
2	2,313.36	2	1,954.23	2	1,595.11	2	1,246.59	2	901.36	2	542.24	2	183.13	2	2	2		2	
1/4	2,305.88	1/4	1,946.75	1/4	1,587.63	1/4	1,239.39	1/4	893.88	1/4	534.76	1/4	175.66	1/4	1/4	1/4		1/4	
1/2	2,298.40	1/2	1,939.27	1/2	1,580.14	1/2	1,232.19	1/2	886.39	1/2	527.28	1/2	168.19	1/2	1/2	1/2		1/2	
3/4	2,290.92	3/4	1,931.79	3/4	1,572.66	3/4	1,225.00	3/4	878.91	3/4	519.80	3/4	160.71	3/4	3/4	3/4		3/4	
3	2,283.43	3	1,924.31	3	1,565.18	3	1,217.80	3	871.43	3	512.31	3	153.24	3	3	3		3	
1/4	2,275.95	1/4	1,916.83	1/4	1,557.70	1/4	1,210.60	1/4	863.95	1/4	504.83	1/4	145.78	1/4	1/4	1/4		1/4	
1/2	2,268.47	1/2	1,909.34	1/2	1,550.22	1/2	1,203.41	1/2	856.47	1/2	497.35	1/2	138.32	1/2	1/2	1/2		1/2	
3/4	2,260.99	3/4	1,901.86	3/4	1,542.74	3/4	1,196.21	3/4	848.99	3/4	489.87	3/4	130.85	3/4	3/4	3/4		3/4	
4	2,253.51	4	1,894.38	4	1,535.25	4	1,189.02	4	841.50	4	482.39	4	123.39	4	4	4		4	
1/4	2,246.02	1/4	1,886.90	1/4	1,527.88	1/4	1,181.83	1/4	834.02	1/4	474.91	1/4	115.95	1/4	1/4	1/4		1/4	
1/2	2,238.54	1/2	1,879.42	1/2	1,520.50	1/2	1,174.65	1/2	826.54	1/2	467.42	1/2	108.50	1/2	1/2	1/2		1/2	
3/4	2,231.06	3/4	1,871.93	3/4	1,513.13	3/4	1,167.46	3/4	819.06	3/4	459.94	3/4	101.06	3/4	3/4	3/4		3/4	
5	2,223.58	5	1,864.45	5	1,505.75	5	1,160.28	5	811.58	5	452.46	5	93.62	5	5	5		5	
1/4	2,216.10	1/4	1,856.97	1/4	1,498.55	1/4	1,153.09	1/4	804.10	1/4	444.98	1/4	86.20	1/4	1/4	1/4		1/4	
1/2	2,208.62	1/2	1,849.49	1/2	1,491.35	1/2	1,145.91	1/2	796.61	1/2	437.50	1/2	78.79	1/2	1/2	1/2		1/2	
3/4	2,201.13	3/4	1,842.01	3/4	1,484.16	3/4	1,138.72	3/4	789.13	3/4	430.02	3/4	71.38	3/4	3/4	3/4		3/4	
6	2,193.65	6	1,834.53	6	1,476.96	6	1,131.54	6	781.65	6	422.53	6	63.97	6	6	6		6	
1/4	2,186.17	1/4	1,827.04	1/4	1,469.76	1/4	1,124.36	1/4	774.17	1/4	415.05	1/4	57.01	1/4	1/4	1/4		1/4	
1/2	2,178.69	1/2	1,819.56	1/2	1,462.56	1/2	1,117.18	1/2	766.69	1/2	407.57	1/2	50.06	1/2	1/2	1/2		1/2	
3/4	2,171.21	3/4	1,812.08	3/4	1,455.36	3/4	1,110.00	3/4	759.21	3/4	400.09	3/4	43.11	3/4	3/4	3/4		3/4	
7	2,163.73	7	1,804.60	7	1,448.16	7	1,102.83	7	751.73	7	392.61	7	36.15	7	7	7		7	
1/4	2,156.24	1/4	1,797.12	1/4	1,440.96	1/4	1,095.65	1/4	744.24	1/4	385.13	1/4	30.86	1/4	1/4	1/4		1/4	
1/2	2,148.76	1/2	1,789.64	1/2	1,433.76	1/2	1,088.47	1/2	736.76	1/2	377.65	1/2	25.56	1/2	1/2	1/2		1/2	
3/4	2,141.28	3/4	1,782.15	3/4	1,426.56	3/4	1,081.29	3/4	729.28	3/4	370.16	3/4	20.26	3/4	3/4	3/4		3/4	
8	2,133.80	8	1,774.67	8	1,419.37	8	1,074.11	8	721.80	8	362.68	8	14.97	8	8	8		8	
1/4	2,126.32	1/4	1,767.19	1/4	1,412.17	1/4	1,066.93	1/4	714.32	1/4	355.20	1/4		1/4	1/4	1/4		1/4	
1/2	2,118.83	1/2	1,759.71	1/2	1,404.97	1/2	1,059.75	1/2	706.84	1/2	347.72	1/2		1/2	1/2	1/2		1/2	
3/4	2,111.35	3/4	1,752.23	3/4	1,397.77	3/4	1,052.57	3/4	699.35	3/4	340.24	3/4		3/4	3/4	3/4		3/4	
9	2,103.87	9	1,744.74	9	1,390.57	9	1,045.39	9	691.87	9	332.76	9		9	9	9		9	
1/4	2,096.39	1/4	1,737.26	1/4	1,383.37	1/4	1,038.21	1/4	684.39	1/4	325.27	1/4		1/4	1/4	1/4		1/4	
1/2	2,088.91	1/2	1,729.78	1/2	1,376.17	1/2	1,031.04	1/2	676.91	1/2	317.79	1/2		1/2	1/2	1/2		1/2	
3/4	2,081.43	3/4	1,722.30	3/4	1,368.97	3/4	1,023.86	3/4	669.43	3/4	310.31	3/4		3/4	3/4	3/4		3/4	
10	2,073.94	10	1,714.82	10	1,361.77	10	1,016.68	10	661.95	10	302.83	10		10	10	10		10	
1/4	2,066.46	1/4	1,707.34	1/4	1,354.58	1/4	1,009.50	1/4	654.46	1/4	295.35	1/4		1/4	1/4	1/4		1/4	
1/2	2,058.98	1/2	1,699.85	1/2	1,347.38	1/2	1,002.32	1/2	646.98	1/2	287.87	1/2		1/2	1/2	1/2		1/2	
3/4	2,051.50	3/4	1,692.37	3/4	1,340.18	3/4	995.14	3/4	639.50	3/4	280.38	3/4		3/4	3/4	3/4		3/4	
11	2,044.02	11	1,684.89	11	1,332.98	11	987.96	11	632.02	11	272.90	11		11	11	11		11	
1/4	2,036.53	1/4	1,677.41	1/4	1,325.78	1/4	980.78	1/4	624.54	1/4	265.42	1/4		1/4	1/4	1/4		1/4	
1/2	2,029.05	1/2	1,669.93	1/2	1,318.58	1/2	973.60	1/2	617.06	1/2	257.94	1/2		1/2	1/2	1/2		1/2	
3/4	2,021.57	3/4	1,662.44	3/4	1,311.38	3/4	966.42	3/4	609.57	3/4	250.46	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

PRECISION MEASUREMENT
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BARGE "KIRBY 29110"

2 STBD 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.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
									4,487.99		4,165.04		3,826.95		3,474.07		3,116.36		2,757.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,481.41	1/4	4,158.14	1/4	3,819.74	1/4	3,466.62	1/4	3,108.88	1/4	2,749.66		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,791.97	1/2	4,474.82	1/2	4,151.24	1/2	3,812.52	1/2	3,459.17	1/2	3,101.39	1/2	2,742.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,786.86	3/4	4,468.24	3/4	4,144.34	3/4	3,805.30	3/4	3,451.71	3/4	3,093.91	3/4	2,734.69
1	1	1	1	1	1	1	1	1	4,461.75	1	4,137.43	1	3,798.09	1	3,444.26	1	3,086.43	1	2,727.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,775.40	1/4	4,455.05	1/4	4,130.51	1/4	3,790.84	1/4	3,436.81	1/4	3,078.94	1/4	2,719.73
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,769.06	1/2	4,448.44	1/2	4,123.59	1/2	3,783.60	1/2	3,429.36	1/2	3,071.46	1/2	2,712.24
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,762.71	3/4	4,441.84	3/4	4,116.66	3/4	3,776.36	3/4	3,421.91	3/4	3,063.98	3/4	2,704.76
2	2	2	2	2	2	2	2	2	4,756.37	2	4,435.23	2	4,109.74	2	3,769.11	2	3,414.46	2	3,056.49	2	2,697.27
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,749.14	1/4	4,428.59	1/4	4,102.79	1/4	3,761.85	1/4	3,407.00	1/4	3,049.01	1/4	2,689.79
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,741.91	1/2	4,421.96	1/2	4,095.84	1/2	3,754.58	1/2	3,399.55	1/2	3,041.52	1/2	2,682.31
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,734.67	3/4	4,415.32	3/4	4,088.89	3/4	3,747.32	3/4	3,392.10	3/4	3,034.04	3/4	2,674.82
3	3	3	3	3	3	3	3	3	4,727.44	3	4,408.69	3	4,081.94	3	3,740.05	3	3,384.65	3	3,026.56	3	2,667.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,719.99	1/4	4,402.03	1/4	4,074.96	1/4	3,732.76	1/4	3,377.20	1/4	3,019.07	1/4	2,659.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,712.54	1/2	4,395.36	1/2	4,067.99	1/2	3,725.47	1/2	3,369.75	1/2	3,011.59	1/2	2,652.37
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,705.09	3/4	4,388.70	3/4	4,061.01	3/4	3,718.18	3/4	3,362.30	3/4	3,004.11	3/4	2,644.89
4	4	4	4	4	4	4	4	4	4,697.64	4	4,382.04	4	4,054.03	4	3,710.88	4	3,354.84	4	2,996.62	4	2,637.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,690.58	1/4	4,375.35	1/4	4,047.03	1/4	3,703.57	1/4	3,347.39	1/4	2,989.14	1/4	2,629.92
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,683.53	1/2	4,368.67	1/2	4,040.03	1/2	3,696.25	1/2	3,339.94	1/2	2,981.65	1/2	2,622.44
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,676.48	3/4	4,361.98	3/4	4,033.02	3/4	3,688.93	3/4	3,332.49	3/4	2,974.17	3/4	2,614.95
5	5	5	5	5	5	5	5	5	4,669.42	5	4,355.29	5	4,026.02	5	3,681.61	5	3,325.04	5	2,966.69	5	2,607.47
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,663.02	1/4	4,348.58	1/4	4,018.99	1/4	3,674.26	1/4	3,317.59	1/4	2,959.20	1/4	2,599.99
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,656.62	1/2	4,341.86	1/2	4,011.96	1/2	3,666.92	1/2	3,310.14	1/2	2,951.72	1/2	2,592.50
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,650.22	3/4	4,335.15	3/4	4,004.93	3/4	3,659.58	3/4	3,302.68	3/4	2,944.24	3/4	2,585.02
6	6	6	6	6	6	6	6	6	4,643.82	6	4,328.43	6	3,997.90	6	3,652.23	6	3,295.23	6	2,936.75	6	2,577.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,637.40	1/4	4,321.69	1/4	3,990.84	1/4	3,644.86	1/4	3,287.78	1/4	2,929.27	1/4	2,570.05
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,630.97	1/2	4,314.95	1/2	3,983.79	1/2	3,637.49	1/2	3,280.33	1/2	2,921.79	1/2	2,562.57
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,624.55	3/4	4,308.21	3/4	3,976.73	3/4	3,630.12	3/4	3,272.88	3/4	2,914.30	3/4	2,555.08
7	7	7	7	7	7	7	7	7	4,618.12	7	4,301.47	7	3,969.68	7	3,622.74	7	3,265.43	7	2,906.82	7	2,547.60
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,611.67	1/4	4,294.70	1/4	3,962.59	1/4	3,615.35	1/4	3,257.97	1/4	2,899.33	1/4	2,540.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,605.21	1/2	4,287.93	1/2	3,955.51	1/2	3,607.95	1/2	3,250.52	1/2	2,891.85	1/2	2,532.63
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,598.76	3/4	4,281.16	3/4	3,948.43	3/4	3,600.55	3/4	3,243.07	3/4	2,884.37	3/4	2,525.15
8	8	8	8	8	8	8	8	8	4,592.31	8	4,274.40	8	3,941.34	8	3,593.15	8	3,235.62	8	2,876.88	8	2,517.67
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,585.83	1/4	4,267.60	1/4	3,934.24	1/4	3,585.73	1/4	3,228.17	1/4	2,869.40	1/4	2,510.18
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,579.35	1/2	4,260.81	1/2	3,927.13	1/2	3,578.30	1/2	3,220.72	1/2	2,861.92	1/2	2,502.70
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,572.87	3/4	4,254.01	3/4	3,920.02	3/4	3,570.88	3/4	3,213.27	3/4	2,854.43	3/4	2,495.21
9	9	9	9	9	9	9	9	9	4,566.39	9	4,247.22	9	3,912.91	9	3,563.45	9	3,205.81	9	2,846.95	9	2,487.73
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,559.88	1/4	4,240.40	1/4	3,905.77	1/4	3,556.01	1/4	3,198.36	1/4	2,839.46	1/4	2,480.25
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,553.38	1/2	4,233.58	1/2	3,898.63	1/2	3,548.57	1/2	3,190.91	1/2	2,831.98	1/2	2,472.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,546.87	3/4	4,226.76	3/4	3,891.50	3/4	3,541.12	3/4	3,183.46	3/4	2,824.50	3/4	2,465.28
10	10	10	10	10	10	10	10	10	4,540.36	10	4,219.93	10	3,884.36	10	3,533.68	10	3,176.01	10	2,817.01	10	2,457.80
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,533.83	1/4	4,213.09	1/4	3,877.20	1/4	3,526.23	1/4	3,168.56	1/4	2,809.53	1/4	2,450.31
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,527.30	1/2	4,206.24	1/2	3,870.04	1/2	3,518.78	1/2	3,161.11	1/2	2,802.05	1/2	2,442.83
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,520.76	3/4	4,199.39	3/4	3,862.87	3/4	3,511.33	3/4	3,153.65	3/4	2,794.56	3/4	2,435.34
11	11	11	11	11	11	11	11	11	4,514.23	11	4,192.54	11	3,855.71	11	3,503.87	11	3,146.20	11	2,787.08	11	2,427.86
1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,507.67	1/4	4,185.67	1/4	3,848.52	1/4	3,496.42	1/4	3,138.74	1/4	2,779.60	1/4	2,420.38
1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,501.11	1/2	4,178.79	1/2	3,841.33	1/2	3,488.97	1/2	3,131.28	1/2	2,772.11	1/2	2,412.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,494.55	3/4	4,171.92	3/4	3,834.14	3/4	3,481.52	3/4	3,123.82	3/4	2,764.63	3/4	2,405.41

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 29110"

2 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-08"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,397.93		2,038.71		1,679.49		1,320.27		961.32		602.24		243.03								
1/4	2,390.44	1/4	2,031.23	1/4	1,672.01	1/4	1,312.79	1/4	953.85	1/4	594.75	1/4	235.55	1/4		1/4		1/4		1/4	
1/2	2,382.96	1/2	2,023.74	1/2	1,664.52	1/2	1,305.31	1/2	946.38	1/2	587.27	1/2	228.07	1/2		1/2		1/2		1/2	
3/4	2,375.48	3/4	2,016.26	3/4	1,657.04	3/4	1,297.82	3/4	938.90	3/4	579.79	3/4	220.59	3/4		3/4		3/4		3/4	
1	2,367.99	1	2,008.77	1	1,649.56	1	1,290.34	1	931.43	1	572.30	1	213.10	1		1		1		1	
1/4	2,360.51	1/4	2,001.29	1/4	1,642.07	1/4	1,282.86	1/4	923.96	1/4	564.82	1/4	205.62	1/4		1/4		1/4		1/4	
1/2	2,353.02	1/2	1,993.81	1/2	1,634.59	1/2	1,275.37	1/2	916.49	1/2	557.34	1/2	198.14	1/2		1/2		1/2		1/2	
3/4	2,345.54	3/4	1,986.32	3/4	1,627.11	3/4	1,267.89	3/4	909.02	3/4	549.85	3/4	190.66	3/4		3/4		3/4		3/4	
2	2,338.06	2	1,978.84	2	1,619.62	2	1,260.40	2	901.55	2	542.37	2	183.18	2		2		2		2	
1/4	2,330.57	1/4	1,971.36	1/4	1,612.14	1/4	1,252.92	1/4	894.07	1/4	534.89	1/4	175.70	1/4		1/4		1/4		1/4	
1/2	2,323.09	1/2	1,963.87	1/2	1,604.65	1/2	1,245.44	1/2	886.59	1/2	527.40	1/2	168.23	1/2		1/2		1/2		1/2	
3/4	2,315.61	3/4	1,956.39	3/4	1,597.17	3/4	1,237.95	3/4	879.12	3/4	519.92	3/4	160.75	3/4		3/4		3/4		3/4	
3	2,308.12	3	1,948.90	3	1,589.69	3	1,230.47	3	871.64	3	512.44	3	153.28	3		3		3		3	
1/4	2,300.64	1/4	1,941.42	1/4	1,582.20	1/4	1,222.99	1/4	864.16	1/4	504.95	1/4	145.81	1/4		1/4		1/4		1/4	
1/2	2,293.15	1/2	1,933.94	1/2	1,574.72	1/2	1,215.50	1/2	856.67	1/2	497.47	1/2	138.35	1/2		1/2		1/2		1/2	
3/4	2,285.67	3/4	1,926.45	3/4	1,567.24	3/4	1,208.02	3/4	849.19	3/4	489.99	3/4	130.89	3/4		3/4		3/4		3/4	
4	2,278.19	4	1,918.97	4	1,559.75	4	1,200.53	4	841.71	4	482.50	4	123.42	4		4		4		4	
1/4	2,270.70	1/4	1,911.49	1/4	1,552.27	1/4	1,193.05	1/4	834.22	1/4	475.02	1/4	115.98	1/4		1/4		1/4		1/4	
1/2	2,263.22	1/2	1,904.00	1/2	1,544.78	1/2	1,185.57	1/2	826.74	1/2	467.54	1/2	108.53	1/2		1/2		1/2		1/2	
3/4	2,255.74	3/4	1,896.52	3/4	1,537.30	3/4	1,178.08	3/4	819.26	3/4	460.05	3/4	101.09	3/4		3/4		3/4		3/4	
5	2,248.25	5	1,889.03	5	1,529.82	5	1,170.60	5	811.77	5	452.57	5	93.64	5		5		5		5	
1/4	2,240.77	1/4	1,881.55	1/4	1,522.33	1/4	1,163.12	1/4	804.29	1/4	445.09	1/4	86.23	1/4		1/4		1/4		1/4	
1/2	2,233.28	1/2	1,874.07	1/2	1,514.85	1/2	1,155.63	1/2	796.81	1/2	437.60	1/2	78.81	1/2		1/2		1/2		1/2	
3/4	2,225.80	3/4	1,866.58	3/4	1,507.37	3/4	1,148.15	3/4	789.32	3/4	430.12	3/4	71.40	3/4		3/4		3/4		3/4	
6	2,218.32	6	1,859.10	6	1,499.88	6	1,140.66	6	781.84	6	422.64	6	63.98	6		6		6		6	
1/4	2,210.83	1/4	1,851.62	1/4	1,492.40	1/4	1,133.19	1/4	774.36	1/4	415.15	1/4	57.03	1/4		1/4		1/4		1/4	
1/2	2,203.35	1/2	1,844.13	1/2	1,484.91	1/2	1,125.71	1/2	766.87	1/2	407.67	1/2	50.07	1/2		1/2		1/2		1/2	
3/4	2,195.87	3/4	1,836.65	3/4	1,477.43	3/4	1,118.23	3/4	759.39	3/4	400.19	3/4	43.12	3/4		3/4		3/4		3/4	
7	2,188.38	7	1,829.17	7	1,469.95	7	1,110.75	7	751.91	7	392.70	7	36.16	7		7		7		7	
1/4	2,180.90	1/4	1,821.68	1/4	1,462.46	1/4	1,103.28	1/4	744.42	1/4	385.22	1/4	30.86	1/4		1/4		1/4		1/4	
1/2	2,173.42	1/2	1,814.20	1/2	1,454.98	1/2	1,095.81	1/2	736.94	1/2	377.74	1/2	25.57	1/2		1/2		1/2		1/2	
3/4	2,165.93	3/4	1,806.71	3/4	1,447.50	3/4	1,088.33	3/4	729.46	3/4	370.25	3/4	20.27	3/4		3/4		3/4		3/4	
8	2,158.45	8	1,799.23	8	1,440.01	8	1,080.86	8	721.97	8	362.77	8	14.97	8		8		8		8	
1/4	2,150.96	1/4	1,791.75	1/4	1,432.53	1/4	1,073.39	1/4	714.49	1/4	355.29	1/4		1/4		1/4		1/4		1/4	
1/2	2,143.48	1/2	1,784.26	1/2	1,425.05	1/2	1,065.92	1/2	707.01	1/2	347.80	1/2		1/2		1/2		1/2		1/2	
3/4	2,136.00	3/4	1,776.78	3/4	1,417.56	3/4	1,058.45	3/4	699.52	3/4	340.32	3/4		3/4		3/4		3/4		3/4	
9	2,128.51	9	1,769.30	9	1,410.08	9	1,050.98	9	692.04	9	332.84	9		9		9		9		9	
1/4	2,121.03	1/4	1,761.81	1/4	1,402.59	1/4	1,043.50	1/4	684.56	1/4	325.35	1/4		1/4		1/4		1/4		1/4	
1/2	2,113.55	1/2	1,754.33	1/2	1,395.11	1/2	1,036.03	1/2	677.07	1/2	317.87	1/2		1/2		1/2		1/2		1/2	
3/4	2,106.06	3/4	1,746.84	3/4	1,387.63	3/4	1,028.56	3/4	669.59	3/4	310.39	3/4		3/4		3/4		3/4		3/4	
10	2,098.58	10	1,739.36	10	1,380.14	10	1,021.09	10	662.11	10	302.90	10		10		10		10		10	
1/4	2,091.09	1/4	1,731.88	1/4	1,372.66	1/4	1,013.62	1/4	654.62	1/4	295.42	1/4		1/4		1/4		1/4		1/4	
1/2	2,083.61	1/2	1,724.39	1/2	1,365.18	1/2	1,006.15	1/2	647.14	1/2	287.94	1/2		1/2		1/2		1/2		1/2	
3/4	2,076.13	3/4	1,716.91	3/4	1,357.69	3/4	998.68	3/4	639.65	3/4	280.45	3/4		3/4		3/4		3/4		3/4	
11	2,068.64	11	1,709.43	11	1,350.21	11	991.20	11	632.17	11	272.97	11		11		11		11		11	
1/4	2,061.16	1/4	1,701.94	1/4	1,342.72	1/4	983.73	1/4	624.69	1/4	265.48	1/4		1/4		1/4		1/4		1/4	
1/2	2,053.68	1/2	1,694.46	1/2	1,335.24	1/2	976.26	1/2	617.20	1/2	258.00	1/2		1/2		1/2		1/2		1/2	
3/4	2,046.19	3/4	1,686.97	3/4	1,327.76	3/4	968.79	3/4	609.72	3/4	250.52	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "KIRBY 29110"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	4,357.64	0	4,116.76	0	3,870.34	0	3,611.94	0	3,341.84	0	2,989.45	0	2,633.00		
1/4		1/4		1/4		1/4	4,353.01	1/4	4,111.75	1/4	3,865.08	1/4	3,606.43	1/4	3,336.13	1/4	2,982.03	1/4	2,625.58		
1/2		1/2		1/2		1/2	4,348.38	1/2	4,106.74	1/2	3,859.82	1/2	3,600.92	1/2	3,330.43	1/2	2,974.60	1/2	2,618.15		
3/4		3/4		3/4		3/4	4,344.22	3/4	4,101.71	3/4	3,854.54	3/4	3,595.39	3/4	3,323.00	3/4	2,967.17	3/4	2,610.73		
1		1		1		1	4,340.07	1	4,096.68	1	3,849.26	1	3,589.86	1	3,315.57	1	2,959.75	1	2,603.30		
1/4		1/4		1/4		1/4	4,335.92	1/4	4,091.66	1/4	3,843.98	1/4	3,584.32	1/4	3,308.14	1/4	2,952.32	1/4	2,595.87		
1/2		1/2		1/2		1/2	4,331.77	1/2	4,086.63	1/2	3,838.70	1/2	3,578.79	1/2	3,300.71	1/2	2,944.90	1/2	2,588.45		
3/4		3/4		3/4		3/4	4,326.41	3/4	4,081.58	3/4	3,833.40	3/4	3,573.24	3/4	3,293.28	3/4	2,937.47	3/4	2,581.02		
2		2		2		2	4,321.06	2	4,076.53	2	3,828.11	2	3,567.69	2	3,285.85	2	2,930.04	2	2,573.60		
1/4		1/4		1/4		1/4	4,315.70	1/4	4,071.48	1/4	3,822.81	1/4	3,562.14	1/4	3,278.42	1/4	2,922.62	1/4	2,566.17		
1/2		1/2		1/2		1/2	4,310.34	1/2	4,066.43	1/2	3,817.51	1/2	3,556.59	1/2	3,271.00	1/2	2,915.19	1/2	2,558.74		
3/4		3/4		3/4		3/4	4,304.64	3/4	4,061.36	3/4	3,812.19	3/4	3,551.02	3/4	3,263.57	3/4	2,907.77	3/4	2,551.32		
3		3		3		3	4,298.93	3	4,056.29	3	3,806.87	3	3,545.45	3	3,256.14	3	2,900.34	3	2,543.89		
1/4		1/4		1/4		1/4	4,293.23	1/4	4,051.22	1/4	3,801.55	1/4	3,539.89	1/4	3,248.71	1/4	2,892.91	1/4	2,536.47		
1/2		1/2		1/2		1/2	4,287.53	1/2	4,046.15	1/2	3,796.22	1/2	3,534.32	1/2	3,241.28	1/2	2,885.49	1/2	2,529.04		
3/4		3/4		3/4		3/4	4,281.82	3/4	4,041.06	3/4	3,790.88	3/4	3,528.73	3/4	3,233.85	3/4	2,878.06	3/4	2,521.61		
4		4		4		4	4,276.12	4	4,035.97	4	3,785.54	4	3,523.13	4	3,226.42	4	2,870.64	4	2,514.19		
1/4		1/4		1/4		1/4	4,270.41	1/4	4,030.88	1/4	3,780.20	1/4	3,517.54	1/4	3,218.99	1/4	2,863.21	1/4	2,506.76		
1/2		1/2		1/2		1/2	4,264.71	1/2	4,025.78	1/2	3,774.86	1/2	3,511.95	1/2	3,211.56	1/2	2,855.78	1/2	2,499.34		
3/4		3/4		3/4		3/4	4,259.84	3/4	4,020.67	3/4	3,769.50	3/4	3,506.34	3/4	3,204.16	3/4	2,848.36	3/4	2,491.91		
5		5		5		5	4,254.98	5	4,015.56	5	3,764.14	5	3,500.73	5	3,196.76	5	2,840.93	5	2,484.48		
1/4		1/4		1/4		1/4	4,250.12	1/4	4,010.45	1/4	3,758.77	1/4	3,495.12	1/4	3,189.36	1/4	2,833.51	1/4	2,477.06		
1/2		1/2		1/2		1/2	4,245.25	1/2	4,005.34	1/2	3,753.41	1/2	3,489.51	1/2	3,181.95	1/2	2,826.08	1/2	2,469.63		
3/4		3/4		3/4		3/4	4,240.37	3/4	4,000.20	3/4	3,748.03	3/4	3,483.87	3/4	3,174.55	3/4	2,818.65	3/4	2,462.21		
6		6		6		6	4,235.49	6	3,995.07	6	3,742.65	6	3,478.24	6	3,167.15	6	2,811.23	6	2,454.78		
1/4		1/4		1/4		1/4	4,230.61	1/4	3,989.94	1/4	3,737.27	1/4	3,472.61	1/4	3,159.75	1/4	2,803.80	1/4	2,447.35		
1/2		1/2		1/2		1/2	4,225.72	1/2	3,984.80	1/2	3,731.88	1/2	3,466.97	1/2	3,152.35	1/2	2,796.38	1/2	2,439.93		
3/4		3/4		3/4		3/4	4,220.82	3/4	3,979.65	3/4	3,726.48	3/4	3,461.32	3/4	3,144.94	3/4	2,788.95	3/4	2,432.50		
7		7		7		7	4,215.91	7	3,974.50	7	3,721.07	7	3,455.67	7	3,137.54	7	2,781.52	7	2,425.08		
1/4		1/4		1/4		1/4	4,211.00	1/4	3,969.34	1/4	3,715.67	1/4	3,450.01	1/4	3,130.14	1/4	2,774.10	1/4	2,417.65		
1/2		1/2		1/2		1/2	4,206.10	1/2	3,964.19	1/2	3,710.26	1/2	3,444.36	1/2	3,122.74	1/2	2,766.67	1/2	2,410.22		
3/4		3/4		3/4		3/4	4,201.17	3/4	3,959.01	3/4	3,704.84	3/4	3,438.69	3/4	3,115.34	3/4	2,759.25	3/4	2,402.80		
8		8		8		8	4,196.25	8	3,953.83	8	3,699.42	8	3,433.01	8	3,107.93	8	2,751.82	8	2,395.37		
1/4		1/4		1/4		1/4	4,191.33	1/4	3,948.66	1/4	3,693.99	1/4	3,427.33	1/4	3,100.53	1/4	2,744.39	1/4	2,387.95		
1/2		1/2		1/2		1/2	4,186.40	1/2	3,943.48	1/2	3,688.57	1/2	3,421.66	1/2	3,093.13	1/2	2,736.97	1/2	2,380.52		
3/4		3/4		3/4		3/4	4,181.45	3/4	3,938.28	3/4	3,683.12	3/4	3,415.96	3/4	3,085.73	3/4	2,729.54	3/4	2,373.09		
9		9		9		9	4,176.50	9	3,933.09	9	3,677.67	9	3,410.27	9	3,078.33	9	2,722.12	9	2,365.67		
1/4		1/4		1/4		1/4	4,171.55	1/4	3,927.89	1/4	3,672.23	1/4	3,404.57	1/4	3,070.92	1/4	2,714.69	1/4	2,358.24		
1/2		1/2		1/2		1/2	4,166.60	1/2	3,922.70	1/2	3,666.78	1/2	3,398.88	1/2	3,063.52	1/2	2,707.26	1/2	2,350.81		
3/4		3/4		3/4		3/4	4,161.64	3/4	3,917.48	3/4	3,661.31	3/4	3,393.17	3/4	3,056.12	3/4	2,699.84	3/4	2,343.39		
10		10		10		10	4,156.67	10	3,912.26	10	3,655.85	10	3,387.47	10	3,048.72	10	2,692.41	10	2,335.96		
1/4		1/4		1/4		1/4	4,151.71	1/4	3,907.04	1/4	3,650.38	1/4	3,381.77	1/4	3,041.31	1/4	2,684.99	1/4	2,328.53		
1/2		1/2		1/2		1/2	4,146.74	1/2	3,901.82	1/2	3,644.92	1/2	3,376.06	1/2	3,033.91	1/2	2,677.56	1/2	2,321.11		
3/4		3/4		3/4		3/4	4,141.75	3/4	3,896.58	3/4	3,639.43	3/4	3,370.36	3/4	3,026.51	3/4	2,670.13	3/4	2,313.68		
11		11		11		11	4,136.76	11	3,891.34	11	3,633.94	11	3,364.65	11	3,019.11	11	2,662.71	11	2,306.26		
1/4		1/4		1/4		1/4	4,131.76	1/4	3,886.11	1/4	3,628.45	1/4	3,358.95	1/4	3,011.71	1/4	2,655.28	1/4	2,298.83		
1/2		1/2		1/2		1/2	4,366.91	1/2	4,126.77	1/2	3,880.87	1/2	3,622.96	1/2	3,353.25	1/2	3,004.30	1/2	2,647.86	1/2	2,291.40
3/4		3/4		3/4		3/4	4,362.28	3/4	4,121.76	3/4	3,875.61	3/4	3,617.45	3/4	3,347.54	3/4	2,996.88	3/4	2,640.43	3/4	2,283.98

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 29110"

3 PORT ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	2,276.55	0	1,919.65	0	1,563.71	0	1,207.15	0	862.89	0	505.89	0	148.68	0		0		0	
1/4	2,269.12	1/4	1,912.21	1/4	1,556.30	1/4	1,199.98	1/4	855.47	1/4	498.45	1/4	141.24	1/4	1/4	1/4		1/4	
1/2	2,261.70	1/2	1,904.77	1/2	1,548.88	1/2	1,192.81	1/2	848.05	1/2	491.01	1/2	133.80	1/2	1/2	1/2		1/2	
3/4	2,254.27	3/4	1,897.36	3/4	1,541.44	3/4	1,185.63	3/4	840.63	3/4	483.57	3/4	126.36	3/4	3/4	3/4		3/4	
1	2,246.84	1	1,889.94	1	1,534.00	1	1,178.46	1	833.21	1	476.13	1	118.92	1	1	1		1	
1/4	2,239.42	1/4	1,882.53	1/4	1,526.56	1/4	1,171.29	1/4	825.79	1/4	468.68	1/4	111.48	1/4	1/4	1/4		1/4	
1/2	2,231.99	1/2	1,875.11	1/2	1,519.12	1/2	1,164.12	1/2	818.37	1/2	461.24	1/2	104.03	1/2	1/2	1/2		1/2	
3/4	2,224.56	3/4	1,867.70	3/4	1,511.68	3/4	1,156.94	3/4	810.95	3/4	453.80	3/4	96.91	3/4	3/4	3/4		3/4	
2	2,217.14	2	1,860.28	2	1,504.24	2	1,149.77	2	803.53	2	446.36	2	89.78	2	2	2		2	
1/4	2,209.71	1/4	1,852.87	1/4	1,496.80	1/4	1,142.60	1/4	796.11	1/4	438.92	1/4	82.65	1/4	1/4	1/4		1/4	
1/2	2,202.28	1/2	1,845.46	1/2	1,489.36	1/2	1,135.43	1/2	788.69	1/2	431.48	1/2	75.53	1/2	1/2	1/2		1/2	
3/4	2,194.86	3/4	1,838.04	3/4	1,481.92	3/4	1,128.25	3/4	781.24	3/4	424.03	3/4	69.34	3/4	3/4	3/4		3/4	
3	2,187.43	3	1,830.63	3	1,474.48	3	1,121.08	3	773.80	3	416.59	3	63.16	3	3	3		3	
1/4	2,180.00	1/4	1,823.21	1/4	1,467.04	1/4	1,113.91	1/4	766.36	1/4	409.15	1/4	56.97	1/4	1/4	1/4		1/4	
1/2	2,172.58	1/2	1,815.80	1/2	1,459.60	1/2	1,106.74	1/2	758.92	1/2	401.71	1/2	50.78	1/2	1/2	1/2		1/2	
3/4	2,165.15	3/4	1,808.38	3/4	1,452.16	3/4	1,099.56	3/4	751.48	3/4	394.27	3/4	45.85	3/4	3/4	3/4		3/4	
4	2,157.73	4	1,800.97	4	1,444.72	4	1,092.39	4	744.04	4	386.82	4	40.93	4	4	4		4	
1/4	2,150.30	1/4	1,793.56	1/4	1,437.27	1/4	1,085.22	1/4	736.59	1/4	379.38	1/4	36.00	1/4	1/4	1/4		1/4	
1/2	2,142.87	1/2	1,786.14	1/2	1,429.83	1/2	1,078.05	1/2	729.15	1/2	371.94	1/2	31.07	1/2	1/2	1/2		1/2	
3/4	2,135.43	3/4	1,778.73	3/4	1,422.39	3/4	1,070.89	3/4	721.71	3/4	364.50	3/4	27.40	3/4	3/4	3/4		3/4	
5	2,127.99	5	1,771.31	5	1,414.95	5	1,063.73	5	714.27	5	357.06	5	23.73	5	5	5		5	
1/4	2,120.55	1/4	1,763.90	1/4	1,407.51	1/4	1,056.57	1/4	706.83	1/4	349.61	1/4	20.07	1/4	1/4	1/4		1/4	
1/2	2,113.11	1/2	1,756.48	1/2	1,400.07	1/2	1,049.41	1/2	699.38	1/2	342.17	1/2	16.40	1/2	1/2	1/2		1/2	
3/4	2,105.67	3/4	1,749.07	3/4	1,392.63	3/4	1,042.25	3/4	691.94	3/4	334.73	3/4		3/4	3/4	3/4		3/4	
6	2,098.23	6	1,741.66	6	1,385.19	6	1,035.09	6	684.50	6	327.29	6		6	6	6		6	
1/4	2,090.79	1/4	1,734.24	1/4	1,377.75	1/4	1,027.93	1/4	677.06	1/4	319.85	1/4		1/4	1/4	1/4		1/4	
1/2	2,083.35	1/2	1,726.83	1/2	1,370.31	1/2	1,020.78	1/2	669.62	1/2	312.41	1/2		1/2	1/2	1/2		1/2	
3/4	2,075.91	3/4	1,719.41	3/4	1,362.87	3/4	1,013.62	3/4	662.17	3/4	304.96	3/4		3/4	3/4	3/4		3/4	
7	2,068.47	7	1,712.00	7	1,355.43	7	1,006.47	7	654.73	7	297.52	7		7	7	7		7	
1/4	2,061.02	1/4	1,704.58	1/4	1,347.99	1/4	999.31	1/4	647.29	1/4	290.08	1/4		1/4	1/4	1/4		1/4	
1/2	2,053.58	1/2	1,697.17	1/2	1,340.55	1/2	992.16	1/2	639.85	1/2	282.64	1/2		1/2	1/2	1/2		1/2	
3/4	2,046.14	3/4	1,689.76	3/4	1,333.11	3/4	985.01	3/4	632.41	3/4	275.20	3/4		3/4	3/4	3/4		3/4	
8	2,038.70	8	1,682.34	8	1,325.67	8	977.85	8	624.96	8	267.75	8		8	8	8		8	
1/4	2,031.26	1/4	1,674.93	1/4	1,318.22	1/4	970.70	1/4	617.52	1/4	260.31	1/4		1/4	1/4	1/4		1/4	
1/2	2,023.82	1/2	1,667.51	1/2	1,310.78	1/2	963.55	1/2	610.08	1/2	252.87	1/2		1/2	1/2	1/2		1/2	
3/4	2,016.38	3/4	1,660.10	3/4	1,303.34	3/4	956.40	3/4	602.64	3/4	245.43	3/4		3/4	3/4	3/4		3/4	
9	2,008.94	9	1,652.68	9	1,295.90	9	949.25	9	595.20	9	237.99	9		9	9	9		9	
1/4	2,001.50	1/4	1,645.27	1/4	1,288.46	1/4	942.10	1/4	587.76	1/4	230.54	1/4		1/4	1/4	1/4		1/4	
1/2	1,994.06	1/2	1,637.86	1/2	1,281.02	1/2	934.95	1/2	580.31	1/2	223.10	1/2		1/2	1/2	1/2		1/2	
3/4	1,986.62	3/4	1,630.44	3/4	1,273.58	3/4	927.80	3/4	572.87	3/4	215.66	3/4		3/4	3/4	3/4		3/4	
10	1,979.18	10	1,623.03	10	1,266.14	10	920.64	10	565.43	10	208.22	10		10	10	10		10	
1/4	1,971.74	1/4	1,615.61	1/4	1,258.70	1/4	913.49	1/4	557.99	1/4	200.78	1/4		1/4	1/4	1/4		1/4	
1/2	1,964.30	1/2	1,608.20	1/2	1,251.26	1/2	906.34	1/2	550.55	1/2	193.33	1/2		1/2	1/2	1/2		1/2	
3/4	1,956.85	3/4	1,600.78	3/4	1,243.82	3/4	899.19	3/4	543.10	3/4	185.89	3/4		3/4	3/4	3/4		3/4	
11	1,949.41	11	1,593.37	11	1,236.38	11	892.04	11	535.66	11	178.45	11		11	11	11		11	
1/4	1,941.97	1/4	1,585.95	1/4	1,228.94	1/4	884.89	1/4	528.22	1/4	171.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,934.53	1/2	1,578.54	1/2	1,221.50	1/2	877.74	1/2	520.78	1/2	163.57	1/2		1/2	1/2	1/2		1/2	
3/4	1,927.09	3/4	1,571.13	3/4	1,214.32	3/4	870.32	3/4	513.34	3/4	156.13	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

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



BARGE "KIRBY 29110"

3 STBD ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN		IN		IN		IN		IN		IN		IN		IN		IN		IN			
0		0		0		0	4,385.03	0	4,143.02	0	3,895.48	0	3,635.93	0	3,364.67	0	3,010.38	0	2,652.65		
1/4		1/4		1/4		1/4	4,380.38	1/4	4,137.98	1/4	3,890.19	1/4	3,630.40	1/4	3,358.94	1/4	3,002.93	1/4	2,645.20		
1/2		1/2		1/2		1/2	4,375.72	1/2	4,132.95	1/2	3,884.90	1/2	3,624.87	1/2	3,353.21	1/2	2,995.48	1/2	2,637.74		
3/4		3/4		3/4		3/4	4,371.54	3/4	4,127.90	3/4	3,879.60	3/4	3,619.31	3/4	3,345.76	3/4	2,988.03	3/4	2,630.29		
1		1		1		1	4,367.37	1	4,122.85	1	3,874.30	1	3,613.75	1	3,338.31	1	2,980.57	1	2,622.84		
1/4		1/4		1/4		1/4	4,363.19	1/4	4,117.80	1/4	3,869.00	1/4	3,608.20	1/4	3,330.85	1/4	2,973.12	1/4	2,615.39		
1/2		1/2		1/2		1/2	4,359.02	1/2	4,112.75	1/2	3,863.69	1/2	3,602.64	1/2	3,323.40	1/2	2,965.67	1/2	2,607.93		
3/4		3/4		3/4		3/4	4,353.64	3/4	4,107.68	3/4	3,858.37	3/4	3,597.07	3/4	3,315.95	3/4	2,958.21	3/4	2,600.48		
2		2		2		2	4,348.26	2	4,102.60	2	3,853.05	2	3,591.49	2	3,308.50	2	2,950.76	2	2,593.03		
1/4		1/4		1/4		1/4	4,342.88	1/4	4,097.53	1/4	3,847.73	1/4	3,585.92	1/4	3,301.04	1/4	2,943.31	1/4	2,585.57		
1/2		1/2		1/2		1/2	4,337.50	1/2	4,092.45	1/2	3,842.41	1/2	3,580.35	1/2	3,293.59	1/2	2,935.86	1/2	2,578.12		
3/4		3/4		3/4		3/4	4,331.77	3/4	4,087.36	3/4	3,837.06	3/4	3,574.75	3/4	3,286.14	3/4	2,928.40	3/4	2,570.67		
3		3		3		3	4,326.04	3	4,082.27	3	3,831.72	3	3,569.16	3	3,278.68	3	2,920.95	3	2,563.22		
1/4		1/4		1/4		1/4	4,320.31	1/4	4,077.18	1/4	3,826.37	1/4	3,563.57	1/4	3,271.23	1/4	2,913.50	1/4	2,555.76		
1/2		1/2		1/2		1/2	4,314.59	1/2	4,072.08	1/2	3,821.03	1/2	3,557.98	1/2	3,263.78	1/2	2,906.04	1/2	2,548.31		
3/4		3/4		3/4		3/4	4,308.86	3/4	4,066.97	3/4	3,815.66	3/4	3,552.36	3/4	3,256.33	3/4	2,898.59	3/4	2,540.86		
4		4		4		4	4,303.13	4	4,061.85	4	3,810.30	4	3,546.74	4	3,248.87	4	2,891.14	4	2,533.40		
1/4		1/4		1/4		1/4	4,297.40	1/4	4,056.74	1/4	3,804.94	1/4	3,541.13	1/4	3,241.42	1/4	2,883.69	1/4	2,525.95		
1/2		1/2		1/2		1/2	4,291.67	1/2	4,051.62	1/2	3,799.57	1/2	3,535.51	1/2	3,233.97	1/2	2,876.23	1/2	2,518.50		
3/4		3/4		3/4		3/4	4,286.79	3/4	4,046.49	3/4	3,794.19	3/4	3,529.88	3/4	3,226.51	3/4	2,868.78	3/4	2,511.05		
5		5		5		5	4,281.90	5	4,041.35	5	3,788.80	5	3,524.24	5	3,219.06	5	2,861.33	5	2,503.59		
1/4		1/4		1/4		1/4	4,277.01	1/4	4,036.22	1/4	3,783.41	1/4	3,518.61	1/4	3,211.61	1/4	2,853.87	1/4	2,496.14		
1/2		1/2		1/2		1/2	4,272.13	1/2	4,031.08	1/2	3,778.03	1/2	3,512.97	1/2	3,204.16	1/2	2,846.42	1/2	2,488.69		
3/4		3/4		3/4		3/4	4,267.22	3/4	4,025.92	3/4	3,772.62	3/4	3,507.32	3/4	3,196.70	3/4	2,838.97	3/4	2,481.23		
6		6		6		6	4,262.31	6	4,020.77	6	3,767.21	6	3,501.66	6	3,189.25	6	2,831.52	6	2,473.78		
1/4		1/4		1/4		1/4	4,257.41	1/4	4,015.61	1/4	3,761.81	1/4	3,496.00	1/4	3,181.80	1/4	2,824.06	1/4	2,466.33		
1/2		1/2		1/2		1/2	4,252.50	1/2	4,010.45	1/2	3,756.40	1/2	3,490.34	1/2	3,174.35	1/2	2,816.61	1/2	2,458.88		
3/4		3/4		3/4		3/4	4,247.57	3/4	4,005.27	3/4	3,750.97	3/4	3,484.67	3/4	3,166.89	3/4	2,809.16	3/4	2,451.42		
7		7		7		7	4,242.64	7	4,000.10	7	3,745.55	7	3,478.99	7	3,159.44	7	2,801.71	7	2,443.97		
1/4		1/4		1/4		1/4	4,237.71	1/4	3,994.92	1/4	3,740.12	1/4	3,473.31	1/4	3,151.99	1/4	2,794.25	1/4	2,436.52		
1/2		1/2		1/2		1/2	4,232.78	1/2	3,989.74	1/2	3,734.69	1/2	3,467.64	1/2	3,144.53	1/2	2,786.80	1/2	2,429.07		
3/4		3/4		3/4		3/4	4,227.83	3/4	3,984.54	3/4	3,729.24	3/4	3,461.94	3/4	3,137.08	3/4	2,779.35	3/4	2,421.61		
8		8		8		8	4,222.89	8	3,979.34	8	3,723.79	8	3,456.24	8	3,129.63	8	2,771.89	8	2,414.16		
1/4		1/4		1/4		1/4	4,217.94	1/4	3,974.14	1/4	3,718.35	1/4	3,450.54	1/4	3,122.18	1/4	2,764.44	1/4	2,406.71		
1/2		1/2		1/2		1/2	4,212.99	1/2	3,968.94	1/2	3,712.90	1/2	3,444.84	1/2	3,114.72	1/2	2,756.99	1/2	2,399.25		
3/4		3/4		3/4		3/4	4,208.02	3/4	3,963.72	3/4	3,707.43	3/4	3,439.12	3/4	3,107.27	3/4	2,749.54	3/4	2,391.80		
9		9		9		9	4,203.05	9	3,958.50	9	3,701.95	9	3,433.40	9	3,099.82	9	2,742.08	9	2,384.35		
1/4		1/4		1/4		1/4	4,198.07	1/4	3,953.28	1/4	3,696.48	1/4	3,427.68	1/4	3,092.36	1/4	2,734.63	1/4	2,376.90		
1/2		1/2		1/2		1/2	4,193.10	1/2	3,948.07	1/2	3,691.01	1/2	3,421.96	1/2	3,084.91	1/2	2,727.18	1/2	2,369.44		
3/4		3/4		3/4		3/4	4,188.11	3/4	3,942.82	3/4	3,685.52	3/4	3,416.23	3/4	3,077.46	3/4	2,719.72	3/4	2,361.99		
10		10		10		10	4,183.12	10	3,937.58	10	3,680.03	10	3,410.50	10	3,070.01	10	2,712.27	10	2,354.54		
1/4		1/4		1/4		1/4	4,178.13	1/4	3,932.34	1/4	3,674.54	1/4	3,404.78	1/4	3,062.55	1/4	2,704.82	1/4	2,347.08		
1/2		1/2		1/2		1/2	4,173.14	1/2	3,927.09	1/2	3,669.05	1/2	3,399.05	1/2	3,055.10	1/2	2,697.37	1/2	2,339.63		
3/4		3/4		3/4		3/4	4,168.13	3/4	3,921.83	3/4	3,663.54	3/4	3,393.32	3/4	3,047.65	3/4	2,689.91	3/4	2,332.18		
11		11		11		11	4,163.11	11	3,916.57	11	3,658.02	11	3,387.59	11	3,040.19	11	2,682.46	11	2,324.73		
1/4		1/4		1/4		1/4	4,158.09	1/4	3,911.31	1/4	3,652.51	1/4	3,381.86	1/4	3,032.74	1/4	2,675.01	1/4	2,317.27		
1/2		1/2		1/2		1/2	4,394.35	1/2	4,153.08	1/2	3,906.05	1/2	3,647.00	1/2	3,376.13	1/2	3,025.29	1/2	2,667.55	1/2	2,309.82
3/4		3/4		3/4		3/4	4,389.69	3/4	4,148.05	3/4	3,900.76	3/4	3,641.46	3/4	3,370.40	3/4	3,017.84	3/4	2,660.10	3/4	2,302.37

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 29110"

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	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	2,294.91		1,937.18		1,579.45		1,221.71		864.24		506.63		148.91								
1/4	2,287.46	1/4	1,929.73	1/4	1,571.99	1/4	1,214.26	1/4	856.80	1/4	499.18	1/4	141.46	1/4		1/4		1/4		1/4	
1/2	2,280.01	1/2	1,922.27	1/2	1,564.54	1/2	1,206.81	1/2	849.36	1/2	491.73	1/2	134.00	1/2		1/2		1/2		1/2	
3/4	2,272.56	3/4	1,914.82	3/4	1,557.09	3/4	1,199.35	3/4	841.92	3/4	484.28	3/4	126.55	3/4		3/4		3/4		3/4	
1	2,265.10	1	1,907.37	1	1,549.63	1	1,191.90	1	834.48	1	476.82	1	119.10	1		1		1		1	
1/4	2,257.65	1/4	1,899.92	1/4	1,542.18	1/4	1,184.45	1/4	827.04	1/4	469.37	1/4	111.65	1/4		1/4		1/4		1/4	
1/2	2,250.20	1/2	1,892.46	1/2	1,534.73	1/2	1,176.99	1/2	819.60	1/2	461.92	1/2	104.20	1/2		1/2		1/2		1/2	
3/4	2,242.75	3/4	1,885.01	3/4	1,527.28	3/4	1,169.54	3/4	812.16	3/4	454.47	3/4	97.06	3/4		3/4		3/4		3/4	
2	2,235.29	2	1,877.56	2	1,519.82	2	1,162.09	2	804.71	2	447.01	2	89.92	2		2		2		2	
1/4	2,227.84	1/4	1,870.11	1/4	1,512.37	1/4	1,154.64	1/4	797.27	1/4	439.56	1/4	82.78	1/4		1/4		1/4		1/4	
1/2	2,220.39	1/2	1,862.65	1/2	1,504.92	1/2	1,147.18	1/2	789.83	1/2	432.11	1/2	75.65	1/2		1/2		1/2		1/2	
3/4	2,212.93	3/4	1,855.20	3/4	1,497.47	3/4	1,139.73	3/4	782.38	3/4	424.66	3/4	69.45	3/4		3/4		3/4		3/4	
3	2,205.48	3	1,847.75	3	1,490.01	3	1,132.28	3	774.93	3	417.20	3	63.25	3		3		3		3	
1/4	2,198.03	1/4	1,840.29	1/4	1,482.56	1/4	1,124.83	1/4	767.48	1/4	409.75	1/4	57.06	1/4		1/4		1/4		1/4	
1/2	2,190.58	1/2	1,832.84	1/2	1,475.11	1/2	1,117.37	1/2	760.02	1/2	402.30	1/2	50.86	1/2		1/2		1/2		1/2	
3/4	2,183.12	3/4	1,825.39	3/4	1,467.65	3/4	1,109.92	3/4	752.57	3/4	394.85	3/4	45.92	3/4		3/4		3/4		3/4	
4	2,175.67	4	1,817.94	4	1,460.20	4	1,102.47	4	745.12	4	387.39	4	40.98	4		4		4		4	
1/4	2,168.22	1/4	1,810.48	1/4	1,452.75	1/4	1,095.01	1/4	737.66	1/4	379.94	1/4	36.04	1/4		1/4		1/4		1/4	
1/2	2,160.76	1/2	1,803.03	1/2	1,445.30	1/2	1,087.56	1/2	730.21	1/2	372.49	1/2	31.10	1/2		1/2		1/2		1/2	
3/4	2,153.31	3/4	1,795.58	3/4	1,437.84	3/4	1,080.11	3/4	722.76	3/4	365.03	3/4	27.42	3/4		3/4		3/4		3/4	
5	2,145.86	5	1,788.12	5	1,430.39	5	1,072.66	5	715.31	5	357.58	5	23.75	5		5		5		5	
1/4	2,138.41	1/4	1,780.67	1/4	1,422.94	1/4	1,065.20	1/4	707.85	1/4	350.13	1/4	20.07	1/4		1/4		1/4		1/4	
1/2	2,130.95	1/2	1,773.22	1/2	1,415.48	1/2	1,057.75	1/2	700.40	1/2	342.68	1/2	16.40	1/2		1/2		1/2		1/2	
3/4	2,123.50	3/4	1,765.77	3/4	1,408.03	3/4	1,050.30	3/4	692.95	3/4	335.22	3/4		3/4		3/4		3/4		3/4	
6	2,116.05	6	1,758.31	6	1,400.58	6	1,042.84	6	685.50	6	327.77	6		6		6		6		6	
1/4	2,108.59	1/4	1,750.86	1/4	1,393.13	1/4	1,035.39	1/4	678.04	1/4	320.32	1/4		1/4		1/4		1/4		1/4	
1/2	2,101.14	1/2	1,743.41	1/2	1,385.67	1/2	1,027.94	1/2	670.59	1/2	312.87	1/2		1/2		1/2		1/2		1/2	
3/4	2,093.69	3/4	1,735.95	3/4	1,378.22	3/4	1,020.50	3/4	663.14	3/4	305.41	3/4		3/4		3/4		3/4		3/4	
7	2,086.24	7	1,728.50	7	1,370.77	7	1,013.06	7	655.69	7	297.96	7		7		7		7		7	
1/4	2,078.78	1/4	1,721.05	1/4	1,363.31	1/4	1,005.62	1/4	648.23	1/4	290.51	1/4		1/4		1/4		1/4		1/4	
1/2	2,071.33	1/2	1,713.60	1/2	1,355.86	1/2	998.18	1/2	640.78	1/2	283.06	1/2		1/2		1/2		1/2		1/2	
3/4	2,063.88	3/4	1,706.14	3/4	1,348.41	3/4	990.73	3/4	633.33	3/4	275.60	3/4		3/4		3/4		3/4		3/4	
8	2,056.43	8	1,698.69	8	1,340.96	8	983.29	8	625.88	8	268.15	8		8		8		8		8	
1/4	2,048.97	1/4	1,691.24	1/4	1,333.50	1/4	975.85	1/4	618.42	1/4	260.70	1/4		1/4		1/4		1/4		1/4	
1/2	2,041.52	1/2	1,683.79	1/2	1,326.05	1/2	968.41	1/2	610.97	1/2	253.25	1/2		1/2		1/2		1/2		1/2	
3/4	2,034.07	3/4	1,676.33	3/4	1,318.60	3/4	960.97	3/4	603.52	3/4	245.79	3/4		3/4		3/4		3/4		3/4	
9	2,026.61	9	1,668.88	9	1,311.15	9	953.53	9	596.07	9	238.34	9		9		9		9		9	
1/4	2,019.16	1/4	1,661.43	1/4	1,303.69	1/4	946.09	1/4	588.61	1/4	230.89	1/4		1/4		1/4		1/4		1/4	
1/2	2,011.71	1/2	1,653.97	1/2	1,296.24	1/2	938.65	1/2	581.16	1/2	223.44	1/2		1/2		1/2		1/2		1/2	
3/4	2,004.26	3/4	1,646.52	3/4	1,288.79	3/4	931.21	3/4	573.71	3/4	215.98	3/4		3/4		3/4		3/4		3/4	
10	1,996.80	10	1,639.07	10	1,281.33	10	923.77	10	566.25	10	208.53	10		10		10		10		10	
1/4	1,989.35	1/4	1,631.62	1/4	1,273.88	1/4	916.33	1/4	558.80	1/4	201.08	1/4		1/4		1/4		1/4		1/4	
1/2	1,981.90	1/2	1,624.16	1/2	1,266.43	1/2	908.89	1/2	551.35	1/2	193.62	1/2		1/2		1/2		1/2		1/2	
3/4	1,974.44	3/4	1,616.71	3/4	1,258.98	3/4	901.44	3/4	543.90	3/4	186.17	3/4		3/4		3/4		3/4		3/4	
11	1,966.99	11	1,609.26	11	1,251.52	11	894.00	11	536.44	11	178.72	11		11		11		11		11	
1/4	1,959.54	1/4	1,601.80	1/4	1,244.07	1/4	886.56	1/4	528.99	1/4	171.27	1/4		1/4		1/4		1/4		1/4	
1/2	1,952.09	1/2	1,594.35	1/2	1,236.62	1/2	879.12	1/2	521.54	1/2	163.81	1/2		1/2		1/2		1/2		1/2	
3/4	1,944.63	3/4	1,586.90	3/4	1,229.16	3/4	871.68	3/4	514.09	3/4	156.36	3/4		3/4		3/4		3/4		3/4	

STRAPPED: 03/19/2013 CL - SW
CALCULATED: 03/20/2013 CL
PRINTED: 03/20/2013 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 03/2013

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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