



BARGE "KIRBY 12321B"

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 CENTER	- 00-1/2	00-1/2	- 00-7/8	00-7/8	- 01-3/8	01-3/8	- 01-7/8	01-7/8	- 02-3/8	02-3/8	- 02-3/4	02-3/4
2 CENTER	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-1/2	00-1/2	- 00-5/8	00-5/8
3 CENTER	- 00-1/8	00-1/8	- 00-1/8	00-1/8	- 00-1/4	00-1/4	- 00-3/8	00-3/8	- 00-3/8	00-3/8	- 00-1/2	00-1/2

(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 CENTER IS 00-7/8"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 4'-00 7/8"

LENGTH BETWEEN DRAFT MARKS: 175'-06"

April 10, 2009

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 12321B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	3,759.79	0	3,526.13	0	3,292.47	0	3,058.81	0	2,792.18	0	2,505.42	0	2,218.40
1/4		1/4		1/4		1/4	3,754.92	1/4	3,521.26	1/4	3,287.60	1/4	3,053.94	1/4	2,786.21	1/4	2,499.45	1/4	2,212.42
1/2		1/2		1/2		1/2	3,750.05	1/2	3,516.39	1/2	3,282.73	1/2	3,049.07	1/2	2,780.23	1/2	2,493.47	1/2	2,206.43
3/4		3/4		3/4		3/4	3,745.18	3/4	3,511.52	3/4	3,277.86	3/4	3,044.20	3/4	2,774.26	3/4	2,487.50	3/4	2,200.45
1		1		1		1	3,740.31	1	3,506.66	1	3,273.00	1	3,039.34	1	2,768.28	1	2,481.52	1	2,194.47
1/4		1/4		1/4		1/4	3,735.45	1/4	3,501.79	1/4	3,268.13	1/4	3,034.47	1/4	2,762.31	1/4	2,475.55	1/4	2,188.49
1/2		1/2		1/2		1/2	3,730.58	1/2	3,496.92	1/2	3,263.26	1/2	3,029.60	1/2	2,756.34	1/2	2,469.57	1/2	2,182.51
3/4		3/4		3/4		3/4	3,725.71	3/4	3,492.05	3/4	3,258.39	3/4	3,024.75	3/4	2,750.36	3/4	2,463.60	3/4	2,176.53
2		2		2		2	3,720.84	2	3,487.18	2	3,253.52	2	3,019.90	2	2,744.39	2	2,457.62	2	2,170.55
1/4		1/4		1/4		1/4	3,715.97	1/4	3,482.32	1/4	3,248.66	1/4	3,015.06	1/4	2,738.41	1/4	2,451.65	1/4	2,164.56
1/2		1/2		1/2		1/2	3,711.11	1/2	3,477.45	1/2	3,243.79	1/2	3,010.21	1/2	2,732.44	1/2	2,445.67	1/2	2,158.58
3/4		3/4		3/4		3/4	3,706.24	3/4	3,472.58	3/4	3,238.92	3/4	3,005.36	3/4	2,726.46	3/4	2,439.69	3/4	2,152.60
3		3		3		3	3,701.37	3	3,467.71	3	3,234.05	3	3,000.51	3	2,720.49	3	2,433.72	3	2,146.62
1/4		1/4		1/4		1/4	3,696.50	1/4	3,462.84	1/4	3,229.18	1/4	2,995.66	1/4	2,714.51	1/4	2,427.74	1/4	2,140.64
1/2		1/2		1/2		1/2	3,691.64	1/2	3,457.98	1/2	3,224.32	1/2	2,990.81	1/2	2,708.54	1/2	2,421.77	1/2	2,134.66
3/4		3/4		3/4		3/4	3,686.77	3/4	3,453.11	3/4	3,219.45	3/4	2,985.96	3/4	2,702.57	3/4	2,415.79	3/4	2,128.68
4		4		4		4	3,681.90	4	3,448.24	4	3,214.58	4	2,981.11	4	2,696.59	4	2,409.81	4	2,122.69
1/4		1/4		1/4		1/4	3,677.03	1/4	3,443.37	1/4	3,209.71	1/4	2,976.27	1/4	2,690.62	1/4	2,403.82	1/4	2,116.71
1/2		1/2		1/2		1/2	3,672.16	1/2	3,438.50	1/2	3,204.85	1/2	2,971.42	1/2	2,684.64	1/2	2,397.84	1/2	2,110.73
3/4		3/4		3/4		3/4	3,667.30	3/4	3,433.64	3/4	3,199.98	3/4	2,966.44	3/4	2,678.67	3/4	2,391.86	3/4	2,104.75
5		5		5		5	3,662.43	5	3,428.77	5	3,195.11	5	2,959.47	5	2,672.69	5	2,385.88	5	2,098.77
1/4		1/4		1/4		1/4	3,657.56	1/4	3,423.90	1/4	3,190.24	1/4	2,953.49	1/4	2,666.72	1/4	2,379.90	1/4	2,092.79
1/2		1/2		1/2		1/2	3,652.69	1/2	3,419.03	1/2	3,185.37	1/2	2,947.52	1/2	2,660.74	1/2	2,373.92	1/2	2,086.80
3/4		3/4		3/4		3/4	3,647.82	3/4	3,414.17	3/4	3,180.51	3/4	2,941.55	3/4	2,654.77	3/4	2,367.94	3/4	2,080.82
6		6		6		6	3,642.96	6	3,409.30	6	3,175.64	6	2,935.57	6	2,648.79	6	2,361.95	6	2,074.84
1/4		1/4		1/4		1/4	3,638.09	1/4	3,404.43	1/4	3,170.77	1/4	2,929.60	1/4	2,642.82	1/4	2,355.97	1/4	2,068.86
1/2		1/2		1/2	3,844.43	1/2	3,633.22	1/2	3,399.56	1/2	3,165.90	1/2	2,923.62	1/2	2,636.85	1/2	2,349.99	1/2	2,062.88
3/4		3/4		3/4	3,843.43	3/4	3,628.35	3/4	3,394.69	3/4	3,161.03	3/4	2,917.65	3/4	2,630.87	3/4	2,344.01	3/4	2,056.90
7		7		7	3,842.43	7	3,623.48	7	3,389.83	7	3,156.17	7	2,911.67	7	2,624.90	7	2,338.03	7	2,050.92
1/4		1/4		1/4	3,841.43	1/4	3,618.62	1/4	3,384.96	1/4	3,151.30	1/4	2,905.70	1/4	2,618.92	1/4	2,332.05	1/4	2,044.93
1/2		1/2		1/2	3,840.43	1/2	3,613.75	1/2	3,380.09	1/2	3,146.43	1/2	2,899.72	1/2	2,612.95	1/2	2,326.06	1/2	2,038.95
3/4		3/4		3/4	3,837.44	3/4	3,608.88	3/4	3,375.22	3/4	3,141.56	3/4	2,893.75	3/4	2,606.97	3/4	2,320.08	3/4	2,032.99
8		8		8	3,834.44	8	3,604.01	8	3,370.35	8	3,136.69	8	2,887.77	8	2,601.00	8	2,314.10	8	2,027.03
1/4		1/4		1/4	3,831.44	1/4	3,599.15	1/4	3,365.49	1/4	3,131.83	1/4	2,881.80	1/4	2,595.02	1/4	2,308.12	1/4	2,021.08
1/2		1/2		1/2	3,828.45	1/2	3,594.28	1/2	3,360.62	1/2	3,126.96	1/2	2,875.83	1/2	2,589.05	1/2	2,302.14	1/2	2,015.12
3/4		3/4		3/4	3,823.45	3/4	3,589.41	3/4	3,355.75	3/4	3,122.09	3/4	2,869.85	3/4	2,583.08	3/4	2,296.16	3/4	2,009.16
9		9		9	3,818.46	9	3,584.54	9	3,350.88	9	3,117.22	9	2,863.88	9	2,577.10	9	2,290.18	9	2,003.20
1/4		1/4		1/4	3,813.46	1/4	3,579.67	1/4	3,346.01	1/4	3,112.36	1/4	2,857.90	1/4	2,571.13	1/4	2,284.19	1/4	1,997.24
1/2		1/2		1/2	3,808.47	1/2	3,574.81	1/2	3,341.15	1/2	3,107.49	1/2	2,851.93	1/2	2,565.15	1/2	2,278.21	1/2	1,991.28
3/4		3/4		3/4	3,803.60	3/4	3,569.94	3/4	3,336.28	3/4	3,102.62	3/4	2,845.95	3/4	2,559.18	3/4	2,272.23	3/4	1,985.32
10		10		10	3,798.73	10	3,565.07	10	3,331.41	10	3,097.75	10	2,839.98	10	2,553.21	10	2,266.25	10	1,979.36
1/4		1/4		1/4	3,793.86	1/4	3,560.20	1/4	3,326.54	1/4	3,092.88	1/4	2,834.00	1/4	2,547.24	1/4	2,260.27	1/4	1,973.41
1/2		1/2		1/2	3,788.99	1/2	3,555.33	1/2	3,321.67	1/2	3,088.02	1/2	2,828.03	1/2	2,541.27	1/2	2,254.29	1/2	1,967.45
3/4		3/4		3/4	3,784.13	3/4	3,550.47	3/4	3,316.81	3/4	3,083.15	3/4	2,822.06	3/4	2,535.30	3/4	2,248.31	3/4	1,961.49
11		11		11	3,779.26	11	3,545.60	11	3,311.94	11	3,078.28	11	2,816.08	11	2,529.32	11	2,242.32	11	1,955.53
1/4		1/4		1/4	3,774.39	1/4	3,540.73	1/4	3,307.07	1/4	3,073.41	1/4	2,810.11	1/4	2,523.35	1/4	2,236.34	1/4	1,949.57
1/2		1/2		1/2	3,769.52	1/2	3,535.86	1/2	3,302.20	1/2	3,068.54	1/2	2,804.13	1/2	2,517.37	1/2	2,230.36	1/2	1,943.61
3/4		3/4		3/4	3,764.65	3/4	3,530.99	3/4	3,297.34	3/4	3,063.68	3/4	2,798.16	3/4	2,511.40	3/4	2,224.38	3/4	1,937.65

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 ON CENTERLINE AND 23'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

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BARGE "KIRBY 12321B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,931.69	0	1,645.08	0	1,357.98	0	1,071.12	0	788.99	0	503.56	0	216.14	0		0		0	
1/4	1,925.74	1/4	1,639.10	1/4	1,352.00	1/4	1,065.15	1/4	783.17	1/4	497.58	1/4	210.15	1/4	1/4		1/4		1/4
1/2	1,919.78	1/2	1,633.12	1/2	1,346.01	1/2	1,059.18	1/2	777.35	1/2	491.61	1/2	204.16	1/2	1/2		1/2		1/2
3/4	1,913.82	3/4	1,627.14	3/4	1,340.03	3/4	1,053.21	3/4	771.53	3/4	485.64	3/4	198.17	3/4	3/4		3/4		3/4
1	1,907.86	1	1,621.16	1	1,334.05	1	1,047.24	1	765.72	1	479.66	1	192.17	1	1		1		1
1/4	1,901.90	1/4	1,615.18	1/4	1,328.07	1/4	1,041.27	1/4	759.90	1/4	473.69	1/4	186.18	1/4	1/4		1/4		1/4
1/2	1,895.94	1/2	1,609.20	1/2	1,322.09	1/2	1,035.29	1/2	754.08	1/2	467.72	1/2	180.19	1/2	1/2		1/2		1/2
3/4	1,889.98	3/4	1,603.21	3/4	1,316.11	3/4	1,029.31	3/4	748.27	3/4	461.74	3/4	174.19	3/4	3/4		3/4		3/4
2	1,884.02	2	1,597.23	2	1,310.13	2	1,023.33	2	742.45	2	455.77	2	168.20	2	2		2		2
1/4	1,878.06	1/4	1,591.25	1/4	1,304.14	1/4	1,017.35	1/4	736.63	1/4	449.80	1/4	162.21	1/4	1/4		1/4		1/4
1/2	1,872.11	1/2	1,585.27	1/2	1,298.16	1/2	1,011.36	1/2	730.81	1/2	443.82	1/2	156.22	1/2	1/2		1/2		1/2
3/4	1,866.15	3/4	1,579.29	3/4	1,292.18	3/4	1,005.38	3/4	724.83	3/4	437.84	3/4	150.22	3/4	3/4		3/4		3/4
3	1,860.19	3	1,573.31	3	1,286.20	3	999.40	3	718.84	3	431.85	3	144.23	3	3		3		3
1/4	1,854.23	1/4	1,567.33	1/4	1,280.22	1/4	993.41	1/4	712.86	1/4	425.87	1/4	138.24	1/4	1/4		1/4		1/4
1/2	1,848.27	1/2	1,561.34	1/2	1,274.24	1/2	987.43	1/2	706.87	1/2	419.89	1/2	132.24	1/2	1/2		1/2		1/2
3/4	1,842.31	3/4	1,555.36	3/4	1,268.26	3/4	981.45	3/4	700.89	3/4	413.90	3/4	126.25	3/4	3/4		3/4		3/4
4	1,836.35	4	1,549.38	4	1,262.27	4	975.46	4	694.90	4	407.91	4	120.26	4	4		4		4
1/4	1,830.39	1/4	1,543.40	1/4	1,256.29	1/4	969.48	1/4	688.92	1/4	401.92	1/4	114.27	1/4	1/4		1/4		1/4
1/2	1,824.44	1/2	1,537.42	1/2	1,250.31	1/2	963.50	1/2	682.93	1/2	395.93	1/2	108.27	1/2	1/2		1/2		1/2
3/4	1,818.48	3/4	1,531.44	3/4	1,244.33	3/4	957.68	3/4	676.95	3/4	389.94	3/4	102.28	3/4	3/4		3/4		3/4
5	1,812.52	5	1,525.46	5	1,238.35	5	951.86	5	670.96	5	383.94	5	96.29	5	5		5		5
1/4	1,806.56	1/4	1,519.47	1/4	1,232.37	1/4	946.05	1/4	664.98	1/4	377.95	1/4	90.30	1/4	1/4		1/4		1/4
1/2	1,800.60	1/2	1,513.49	1/2	1,226.39	1/2	940.23	1/2	658.99	1/2	371.96	1/2	84.30	1/2	1/2		1/2		1/2
3/4	1,794.62	3/4	1,507.51	3/4	1,220.41	3/4	934.41	3/4	653.01	3/4	365.96	3/4	78.31	3/4	3/4		3/4		3/4
6	1,788.64	6	1,501.53	6	1,214.44	6	928.60	6	647.02	6	359.97	6	72.32	6	6		6		6
1/4	1,782.66	1/4	1,495.55	1/4	1,208.47	1/4	922.78	1/4	641.04	1/4	353.98	1/4	66.32	1/4	1/4		1/4		1/4
1/2	1,776.67	1/2	1,489.57	1/2	1,202.50	1/2	916.96	1/2	635.05	1/2	347.99	1/2	60.33	1/2	1/2		1/2		1/2
3/4	1,770.69	3/4	1,483.59	3/4	1,196.53	3/4	911.15	3/4	629.07	3/4	341.99	3/4	54.34	3/4	3/4		3/4		3/4
7	1,764.71	7	1,477.60	7	1,190.56	7	905.33	7	623.10	7	336.00	7	48.35	7	7		7		7
1/4	1,758.73	1/4	1,471.62	1/4	1,184.59	1/4	899.51	1/4	617.12	1/4	330.01	1/4	42.35	1/4	1/4		1/4		1/4
1/2	1,752.75	1/2	1,465.64	1/2	1,178.61	1/2	893.69	1/2	611.14	1/2	324.01	1/2	36.36	1/2	1/2		1/2		1/2
3/4	1,746.77	3/4	1,459.66	3/4	1,172.64	3/4	887.88	3/4	605.16	3/4	318.02	3/4	31.37	3/4	3/4		3/4		3/4
8	1,740.79	8	1,453.68	8	1,166.67	8	882.06	8	599.19	8	312.03	8	26.37	8	8		8		8
1/4	1,734.81	1/4	1,447.70	1/4	1,160.70	1/4	876.24	1/4	593.21	1/4	306.04	1/4	21.38	1/4	1/4		1/4		1/4
1/2	1,728.82	1/2	1,441.72	1/2	1,154.73	1/2	870.43	1/2	587.23	1/2	300.04	1/2	16.38	1/2	1/2		1/2		1/2
3/4	1,722.84	3/4	1,435.74	3/4	1,148.76	3/4	864.61	3/4	581.26	3/4	294.05	3/4	13.39	3/4	3/4		3/4		3/4
9	1,716.86	9	1,429.75	9	1,142.78	9	858.79	9	575.28	9	288.06	9	10.39	9	9		9		9
1/4	1,710.88	1/4	1,423.77	1/4	1,136.81	1/4	852.97	1/4	569.30	1/4	282.06	1/4	7.40	1/4	1/4		1/4		1/4
1/2	1,704.90	1/2	1,417.79	1/2	1,130.84	1/2	847.16	1/2	563.32	1/2	276.07	1/2	4.40	1/2	1/2		1/2		1/2
3/4	1,698.92	3/4	1,411.81	3/4	1,124.87	3/4	841.34	3/4	557.35	3/4	270.08	3/4	3.40	3/4	3/4		3/4		3/4
10	1,692.94	10	1,405.83	10	1,118.90	10	835.52	10	551.37	10	264.09	10	2.40	10	10		10		10
1/4	1,686.95	1/4	1,399.85	1/4	1,112.93	1/4	829.71	1/4	545.39	1/4	258.09	1/4	1.41	1/4	1/4		1/4		1/4
1/2	1,680.97	1/2	1,393.87	1/2	1,106.95	1/2	823.89	1/2	539.42	1/2	252.10	1/2	0.41	1/2	1/2		1/2		1/2
3/4	1,674.99	3/4	1,387.88	3/4	1,100.98	3/4	818.07	3/4	533.44	3/4	246.11	3/4		3/4	3/4		3/4		3/4
11	1,669.01	11	1,381.90	11	1,095.01	11	812.25	11	527.46	11	240.12	11		11	11		11		11
1/4	1,663.03	1/4	1,375.92	1/4	1,089.04	1/4	806.44	1/4	521.49	1/4	234.12	1/4		1/4	1/4		1/4		1/4
1/2	1,657.05	1/2	1,369.94	1/2	1,083.07	1/2	800.62	1/2	515.51	1/2	228.13	1/2		1/2	1/2		1/2		1/2
3/4	1,651.07	3/4	1,363.96	3/4	1,077.10	3/4	794.80	3/4	509.54	3/4	222.14	3/4		3/4	3/4		3/4		3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2009 CL - SW
CALCULATED: 04/10/2009 CL
PRINTED: 04/10/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2009

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



BARGE "KIRBY 12321B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 3/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	3,935.89	0	3,649.59	0	3,363.30	0	3,077.00	0	2,790.70	0	2,504.41	0	2,218.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,929.92	1/4	3,643.63	1/4	3,357.33	1/4	3,071.03	1/4	2,784.74	1/4	2,498.44	1/4	2,212.15
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,923.96	1/2	3,637.66	1/2	3,351.37	1/2	3,065.07	1/2	2,778.77	1/2	2,492.48	1/2	2,206.18
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,917.99	3/4	3,631.70	3/4	3,345.40	3/4	3,059.11	3/4	2,772.81	3/4	2,486.51	3/4	2,200.22
1		1		1		1	3,912.03	1	3,625.73	1	3,339.44	1	3,053.14	1	2,766.85	1	2,480.55	1	2,194.25
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,906.06	1/4	3,619.77	1/4	3,333.47	1/4	3,047.18	1/4	2,760.88	1/4	2,474.58	1/4	2,188.29
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,900.10	1/2	3,613.80	1/2	3,327.51	1/2	3,041.21	1/2	2,754.92	1/2	2,468.62	1/2	2,182.32
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,894.14	3/4	3,607.84	3/4	3,321.54	3/4	3,035.25	3/4	2,748.95	3/4	2,462.66	3/4	2,176.36
2		2		2		2	3,888.17	2	3,601.88	2	3,315.58	2	3,029.28	2	2,742.99	2	2,456.69	2	2,170.40
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,882.21	1/4	3,595.91	1/4	3,309.61	1/4	3,023.32	1/4	2,737.02	1/4	2,450.73	1/4	2,164.43
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,876.24	1/2	3,589.95	1/2	3,303.65	1/2	3,017.35	1/2	2,731.06	1/2	2,444.76	1/2	2,158.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,870.28	3/4	3,583.98	3/4	3,297.69	3/4	3,011.39	3/4	2,725.09	3/4	2,438.80	3/4	2,152.50
3		3		3		3	3,864.31	3	3,578.02	3	3,291.72	3	3,005.43	3	2,719.13	3	2,432.83	3	2,146.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,858.35	1/4	3,572.05	1/4	3,285.76	1/4	2,999.46	1/4	2,713.16	1/4	2,426.87	1/4	2,140.57
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,852.38	1/2	3,566.09	1/2	3,279.79	1/2	2,993.50	1/2	2,707.20	1/2	2,420.90	1/2	2,134.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,846.42	3/4	3,560.12	3/4	3,273.83	3/4	2,987.53	3/4	2,701.24	3/4	2,414.94	3/4	2,128.64
4		4		4		4	3,840.46	4	3,554.16	4	3,267.86	4	2,981.57	4	2,695.27	4	2,408.98	4	2,122.68
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,834.49	1/4	3,548.19	1/4	3,261.90	1/4	2,975.60	1/4	2,689.31	1/4	2,403.01	1/4	2,116.71
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,828.53	1/2	3,542.23	1/2	3,255.93	1/2	2,969.64	1/2	2,683.34	1/2	2,397.05	1/2	2,110.75
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,822.56	3/4	3,536.27	3/4	3,249.97	3/4	2,963.67	3/4	2,677.38	3/4	2,391.08	3/4	2,104.79
5		5		5		5	3,816.60	5	3,530.30	5	3,244.01	5	2,957.71	5	2,671.41	5	2,385.12	5	2,098.82
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,810.63	1/4	3,524.34	1/4	3,238.04	1/4	2,951.74	1/4	2,665.45	1/4	2,379.15	1/4	2,092.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,804.67	1/2	3,518.37	1/2	3,232.08	1/2	2,945.78	1/2	2,659.48	1/2	2,373.19	1/2	2,086.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,798.70	3/4	3,512.41	3/4	3,226.11	3/4	2,939.82	3/4	2,653.52	3/4	2,367.22	3/4	2,080.93
6		6		6		6	3,792.74	6	3,506.44	6	3,220.15	6	2,933.85	6	2,647.56	6	2,361.26	6	2,074.96
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,786.77	1/4	3,500.48	1/4	3,214.18	1/4	2,927.89	1/4	2,641.59	1/4	2,355.29	1/4	2,069.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,780.81	1/2	3,494.51	1/2	3,208.22	1/2	2,921.92	1/2	2,635.63	1/2	2,349.33	1/2	2,063.03
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,025.34	3/4	3,774.85	3/4	3,488.55	3/4	3,202.25	3/4	2,915.96	3/4	2,629.66	3/4	2,343.37
7		7		7		7	3,774.85	7	3,482.59	7	3,196.29	7	2,909.99	7	2,623.70	7	2,337.40	7	2,051.11
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,024.35	1/4	3,762.92	1/4	3,476.62	1/4	3,190.32	1/4	2,904.03	1/4	2,617.73	1/4	2,331.44
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,022.36	1/2	3,756.95	1/2	3,470.66	1/2	3,184.36	1/2	2,898.06	1/2	2,611.77	1/2	2,325.47
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,021.37	3/4	3,750.99	3/4	3,464.69	3/4	3,178.40	3/4	2,892.10	3/4	2,605.80	3/4	2,319.51
8		8		8		8	4,018.39	8	3,745.02	8	3,458.73	8	3,172.43	8	2,886.14	8	2,599.84	8	2,313.54
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,015.40	1/4	3,739.06	1/4	3,452.76	1/4	3,166.47	1/4	2,880.17	1/4	2,593.87	1/4	2,307.58
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,012.42	1/2	3,733.09	1/2	3,446.80	1/2	3,160.50	1/2	2,874.21	1/2	2,587.91	1/2	2,301.61
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,009.44	3/4	3,727.13	3/4	3,440.83	3/4	3,154.54	3/4	2,868.24	3/4	2,581.95	3/4	2,295.65
9		9		9		9	4,004.47	9	3,721.17	9	3,434.87	9	3,148.57	9	2,862.28	9	2,575.98	9	2,289.69
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,999.50	1/4	3,715.20	1/4	3,428.90	1/4	3,142.61	1/4	2,856.31	1/4	2,570.02	1/4	2,283.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,994.54	1/2	3,709.24	1/2	3,422.94	1/2	3,136.64	1/2	2,850.35	1/2	2,564.05	1/2	2,277.76
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,989.57	3/4	3,703.27	3/4	3,416.98	3/4	3,130.68	3/4	2,844.38	3/4	2,558.09	3/4	2,271.79
10		10		10		10	3,983.60	10	3,697.31	10	3,411.01	10	3,124.72	10	2,838.42	10	2,552.12	10	2,265.83
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,977.64	1/4	3,691.34	1/4	3,405.05	1/4	3,118.75	1/4	2,832.45	1/4	2,546.16	1/4	2,259.86
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,971.67	1/2	3,685.38	1/2	3,399.08	1/2	3,112.79	1/2	2,826.49	1/2	2,540.19	1/2	2,253.90
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,965.71	3/4	3,679.41	3/4	3,393.12	3/4	3,106.82	3/4	2,820.53	3/4	2,534.23	3/4	2,247.93
11		11		11		11	3,959.75	11	3,673.45	11	3,387.15	11	3,100.86	11	2,814.56	11	2,528.27	11	2,241.97
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,953.78	1/4	3,667.48	1/4	3,381.19	1/4	3,094.89	1/4	2,808.60	1/4	2,522.30	1/4	2,236.00
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,947.82	1/2	3,661.52	1/2	3,375.22	1/2	3,088.93	1/2	2,802.63	1/2	2,516.34	1/2	2,230.04
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,941.85	3/4	3,655.56	3/4	3,369.26	3/4	3,082.96	3/4	2,796.67	3/4	2,510.37	3/4	2,224.08

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 ON CENTERLINE AND 28'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 12321B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-10 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	1,931.82	0	1,645.52	0	1,359.22	0	1,072.93	0	788.58	0	505.68	0	221.06	0		0		0	
1/4	1,925.85	1/4	1,639.55	1/4	1,353.26	1/4	1,066.96	1/4	782.68	1/4	499.79	1/4	215.10	1/4	1/4	1/4		1/4	
1/2	1,919.89	1/2	1,633.59	1/2	1,347.29	1/2	1,061.00	1/2	776.78	1/2	493.91	1/2	209.14	1/2	1/2	1/2		1/2	
3/4	1,913.92	3/4	1,627.63	3/4	1,341.33	3/4	1,055.03	3/4	770.88	3/4	488.02	3/4	203.17	3/4	3/4	3/4		3/4	
1	1,907.96	1	1,621.66	1	1,335.37	1	1,049.07	1	764.99	1	482.13	1	197.21	1	1	1		1	
1/4	1,901.99	1/4	1,615.70	1/4	1,329.40	1/4	1,043.10	1/4	759.09	1/4	476.24	1/4	191.24	1/4	1/4	1/4		1/4	
1/2	1,896.03	1/2	1,609.73	1/2	1,323.44	1/2	1,037.14	1/2	753.19	1/2	470.35	1/2	185.28	1/2	1/2	1/2		1/2	
3/4	1,890.06	3/4	1,603.77	3/4	1,317.47	3/4	1,031.18	3/4	747.30	3/4	464.47	3/4	179.32	3/4	3/4	3/4		3/4	
2	1,884.10	2	1,597.80	2	1,311.51	2	1,025.21	2	741.40	2	458.58	2	173.35	2	2	2		2	
1/4	1,878.13	1/4	1,591.84	1/4	1,305.54	1/4	1,019.25	1/4	735.50	1/4	452.69	1/4	167.39	1/4	1/4	1/4		1/4	
1/2	1,872.17	1/2	1,585.87	1/2	1,299.58	1/2	1,013.28	1/2	729.60	1/2	446.80	1/2	161.43	1/2	1/2	1/2		1/2	
3/4	1,866.21	3/4	1,579.91	3/4	1,293.61	3/4	1,007.32	3/4	723.71	3/4	440.91	3/4	155.46	3/4	3/4	3/4		3/4	
3	1,860.24	3	1,573.95	3	1,287.65	3	1,001.35	3	717.81	3	435.02	3	149.50	3	3	3		3	
1/4	1,854.28	1/4	1,567.98	1/4	1,281.68	1/4	995.39	1/4	711.91	1/4	429.12	1/4	143.53	1/4	1/4	1/4		1/4	
1/2	1,848.31	1/2	1,562.02	1/2	1,275.72	1/2	989.42	1/2	706.01	1/2	423.23	1/2	137.57	1/2	1/2	1/2		1/2	
3/4	1,842.35	3/4	1,556.05	3/4	1,269.76	3/4	983.46	3/4	700.12	3/4	417.33	3/4	131.61	3/4	3/4	3/4		3/4	
4	1,836.38	4	1,550.09	4	1,263.79	4	977.50	4	694.22	4	411.43	4	125.64	4	4	4		4	
1/4	1,830.42	1/4	1,544.12	1/4	1,257.83	1/4	971.53	1/4	688.32	1/4	405.54	1/4	119.68	1/4	1/4	1/4		1/4	
1/2	1,824.45	1/2	1,538.16	1/2	1,251.86	1/2	965.57	1/2	682.42	1/2	399.64	1/2	113.72	1/2	1/2	1/2		1/2	
3/4	1,818.49	3/4	1,532.19	3/4	1,245.90	3/4	959.60	3/4	676.53	3/4	393.74	3/4	107.75	3/4	3/4	3/4		3/4	
5	1,812.53	5	1,526.23	5	1,239.93	5	953.70	5	670.63	5	387.85	5	101.79	5	5	5		5	
1/4	1,806.56	1/4	1,520.26	1/4	1,233.97	1/4	947.81	1/4	664.73	1/4	381.95	1/4	95.82	1/4	1/4	1/4		1/4	
1/2	1,800.60	1/2	1,514.30	1/2	1,228.00	1/2	941.91	1/2	658.83	1/2	376.05	1/2	89.86	1/2	1/2	1/2		1/2	
3/4	1,794.63	3/4	1,508.34	3/4	1,222.04	3/4	936.01	3/4	652.94	3/4	370.16	3/4	83.90	3/4	3/4	3/4		3/4	
6	1,788.67	6	1,502.37	6	1,216.08	6	930.11	6	647.04	6	364.19	6	77.93	6	6	6		6	
1/4	1,782.70	1/4	1,496.41	1/4	1,210.11	1/4	924.22	1/4	641.14	1/4	358.23	1/4	71.97	1/4	1/4	1/4		1/4	
1/2	1,776.74	1/2	1,490.44	1/2	1,204.15	1/2	918.32	1/2	635.24	1/2	352.27	1/2	66.00	1/2	1/2	1/2		1/2	
3/4	1,770.77	3/4	1,484.48	3/4	1,198.18	3/4	912.42	3/4	629.35	3/4	346.30	3/4	60.04	3/4	3/4	3/4		3/4	
7	1,764.81	7	1,478.51	7	1,192.22	7	906.53	7	623.46	7	340.34	7	54.08	7	7	7		7	
1/4	1,758.84	1/4	1,472.55	1/4	1,186.25	1/4	900.63	1/4	617.57	1/4	334.38	1/4	48.11	1/4	1/4	1/4		1/4	
1/2	1,752.88	1/2	1,466.58	1/2	1,180.29	1/2	894.73	1/2	611.68	1/2	328.41	1/2	42.15	1/2	1/2	1/2		1/2	
3/4	1,746.92	3/4	1,460.62	3/4	1,174.32	3/4	888.83	3/4	605.79	3/4	322.45	3/4	36.19	3/4	3/4	3/4		3/4	
8	1,740.95	8	1,454.66	8	1,168.36	8	882.94	8	599.90	8	316.48	8	31.22	8	8	8		8	
1/4	1,734.99	1/4	1,448.69	1/4	1,162.39	1/4	877.04	1/4	594.01	1/4	310.52	1/4	26.25	1/4	1/4	1/4		1/4	
1/2	1,729.02	1/2	1,442.73	1/2	1,156.43	1/2	871.14	1/2	588.12	1/2	304.56	1/2	21.28	1/2	1/2	1/2		1/2	
3/4	1,723.06	3/4	1,436.76	3/4	1,150.47	3/4	865.24	3/4	582.23	3/4	298.59	3/4	16.31	3/4	3/4	3/4		3/4	
9	1,717.09	9	1,430.80	9	1,144.50	9	859.35	9	576.35	9	292.63	9	13.33	9	9	9		9	
1/4	1,711.13	1/4	1,424.83	1/4	1,138.54	1/4	853.45	1/4	570.46	1/4	286.67	1/4	10.34	1/4	1/4	1/4		1/4	
1/2	1,705.16	1/2	1,418.87	1/2	1,132.57	1/2	847.55	1/2	564.57	1/2	280.70	1/2	7.36	1/2	1/2	1/2		1/2	
3/4	1,699.20	3/4	1,412.90	3/4	1,126.61	3/4	841.65	3/4	558.68	3/4	274.74	3/4	4.38	3/4	3/4	3/4		3/4	
10	1,693.24	10	1,406.94	10	1,120.64	10	835.76	10	552.79	10	268.77	10	3.39	10	10	10		10	
1/4	1,687.27	1/4	1,400.97	1/4	1,114.68	1/4	829.86	1/4	546.90	1/4	262.81	1/4	2.39	1/4	1/4	1/4		1/4	
1/2	1,681.31	1/2	1,395.01	1/2	1,108.71	1/2	823.96	1/2	541.01	1/2	256.85	1/2	1.40	1/2	1/2	1/2		1/2	
3/4	1,675.34	3/4	1,389.05	3/4	1,102.75	3/4	818.06	3/4	535.12	3/4	250.88	3/4	0.41	3/4	3/4	3/4		3/4	
11	1,669.38	11	1,383.08	11	1,096.79	11	812.17	11	529.23	11	244.92	11		11	11	11		11	
1/4	1,663.41	1/4	1,377.12	1/4	1,090.82	1/4	806.27	1/4	523.35	1/4	238.95	1/4		1/4	1/4	1/4		1/4	
1/2	1,657.45	1/2	1,371.15	1/2	1,084.86	1/2	800.37	1/2	517.46	1/2	232.99	1/2		1/2	1/2	1/2		1/2	
3/4	1,651.48	3/4	1,365.19	3/4	1,078.89	3/4	794.47	3/4	511.57	3/4	227.03	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2009 CL - SW
CALCULATED: 04/10/2009 CL
PRINTED: 04/10/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2009

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



BARGE "KIRBY 12321B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.			
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	3,928.04	0	3,643.64	0	3,359.24	0	3,074.84	0	2,790.44	0	2,506.04	0	2,221.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,922.12	1/4	3,637.72	1/4	3,353.32	1/4	3,068.92	1/4	2,784.52	1/4	2,500.12	1/4	2,215.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,916.19	1/2	3,631.79	1/2	3,347.39	1/2	3,062.99	1/2	2,778.59	1/2	2,494.19	1/2	2,209.79		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,910.27	3/4	3,625.87	3/4	3,341.47	3/4	3,057.07	3/4	2,772.67	3/4	2,488.27	3/4	2,203.87		
1		1		1		1	3,904.34	1	3,619.94	1	3,335.54	1	3,051.14	1	2,766.74	1	2,482.34	1	2,197.94		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,898.42	1/4	3,614.02	1/4	3,329.62	1/4	3,045.22	1/4	2,760.82	1/4	2,476.42	1/4	2,192.02		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,892.49	1/2	3,608.09	1/2	3,323.69	1/2	3,039.29	1/2	2,754.89	1/2	2,470.49	1/2	2,186.09		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,886.57	3/4	3,602.17	3/4	3,317.77	3/4	3,033.37	3/4	2,748.97	3/4	2,464.57	3/4	2,180.17		
2		2		2		2	3,880.64	2	3,596.24	2	3,311.84	2	3,027.44	2	2,743.04	2	2,458.64	2	2,174.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,874.72	1/4	3,590.32	1/4	3,305.92	1/4	3,021.52	1/4	2,737.12	1/4	2,452.72	1/4	2,168.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,868.79	1/2	3,584.39	1/2	3,299.99	1/2	3,015.59	1/2	2,731.19	1/2	2,446.79	1/2	2,162.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,862.87	3/4	3,578.47	3/4	3,294.07	3/4	3,009.67	3/4	2,725.27	3/4	2,440.87	3/4	2,156.47		
3		3		3		3	3,856.94	3	3,572.54	3	3,288.14	3	3,003.74	3	2,719.34	3	2,434.94	3	2,150.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,851.02	1/4	3,566.62	1/4	3,282.22	1/4	2,997.82	1/4	2,713.42	1/4	2,429.02	1/4	2,144.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,845.09	1/2	3,560.69	1/2	3,276.29	1/2	2,991.89	1/2	2,707.49	1/2	2,423.09	1/2	2,138.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,839.17	3/4	3,554.77	3/4	3,270.37	3/4	2,985.97	3/4	2,701.57	3/4	2,417.17	3/4	2,132.77		
4		4		4		4	3,833.24	4	3,548.84	4	3,264.44	4	2,980.04	4	2,695.64	4	2,411.24	4	2,126.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,827.32	1/4	3,542.92	1/4	3,258.52	1/4	2,974.12	1/4	2,689.72	1/4	2,405.32	1/4	2,120.92		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,821.39	1/2	3,536.99	1/2	3,252.59	1/2	2,968.19	1/2	2,683.79	1/2	2,399.39	1/2	2,114.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,815.47	3/4	3,531.07	3/4	3,246.67	3/4	2,962.27	3/4	2,677.87	3/4	2,393.47	3/4	2,109.07		
5		5		5		5	3,809.54	5	3,525.14	5	3,240.74	5	2,956.34	5	2,671.94	5	2,387.54	5	2,103.14		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,803.62	1/4	3,519.22	1/4	3,234.82	1/4	2,950.42	1/4	2,666.02	1/4	2,381.62	1/4	2,097.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,797.69	1/2	3,513.29	1/2	3,228.89	1/2	2,944.49	1/2	2,660.09	1/2	2,375.69	1/2	2,091.29		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,791.77	3/4	3,507.37	3/4	3,222.97	3/4	2,938.57	3/4	2,654.17	3/4	2,369.77	3/4	2,085.37		
6		6		6		6	3,785.84	6	3,501.44	6	3,217.04	6	2,932.64	6	2,648.24	6	2,363.84	6	2,079.44		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,779.92	1/4	3,495.52	1/4	3,211.12	1/4	2,926.72	1/4	2,642.32	1/4	2,357.92	1/4	2,073.52		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,773.99	1/2	3,489.59	1/2	3,205.19	1/2	2,920.79	1/2	2,636.39	1/2	2,351.99	1/2	2,067.59		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,768.07	3/4	3,483.67	3/4	3,199.27	3/4	2,914.87	3/4	2,630.47	3/4	2,346.07	3/4	2,061.67		
7		7		7		7	3,762.14	7	3,477.74	7	3,193.34	7	2,908.94	7	2,624.54	7	2,340.14	7	2,055.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,005.07	1/4	3,756.22	1/4	3,471.82	1/4	3,187.42	1/4	2,903.02	1/4	2,618.62	1/4	2,334.22	1/4	2,049.82
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,004.08	1/2	3,750.29	1/2	3,465.89	1/2	3,181.49	1/2	2,897.09	1/2	2,612.69	1/2	2,328.29	1/2	2,043.89
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,003.10	3/4	3,744.37	3/4	3,459.97	3/4	3,175.57	3/4	2,891.17	3/4	2,606.77	3/4	2,322.37	3/4	2,037.97
8		8		8		8	4,002.11	8	3,738.44	8	3,454.04	8	3,169.64	8	2,885.24	8	2,600.84	8	2,316.44	8	2,032.04
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,001.12	1/4	3,732.52	1/4	3,448.12	1/4	3,163.72	1/4	2,879.32	1/4	2,594.92	1/4	2,310.52	1/4	2,026.12
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,998.16	1/2	3,726.59	1/2	3,442.19	1/2	3,157.79	1/2	2,873.39	1/2	2,588.99	1/2	2,304.59	1/2	2,020.19
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,995.20	3/4	3,720.67	3/4	3,436.27	3/4	3,151.87	3/4	2,867.47	3/4	2,583.07	3/4	2,298.67	3/4	2,014.27
9		9		9		9	3,992.23	9	3,714.74	9	3,430.34	9	3,145.94	9	2,861.54	9	2,577.14	9	2,292.74	9	2,008.34
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,989.27	1/4	3,708.82	1/4	3,424.42	1/4	3,140.02	1/4	2,855.62	1/4	2,571.22	1/4	2,286.82	1/4	2,002.42
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,984.33	1/2	3,702.89	1/2	3,418.49	1/2	3,134.09	1/2	2,849.69	1/2	2,565.29	1/2	2,280.89	1/2	1,996.49
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,979.39	3/4	3,696.97	3/4	3,412.57	3/4	3,128.17	3/4	2,843.77	3/4	2,559.37	3/4	2,274.97	3/4	1,990.57
10		10		10		10	3,974.45	10	3,691.04	10	3,406.64	10	3,122.24	10	2,837.84	10	2,553.44	10	2,269.04	10	1,984.64
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,969.52	1/4	3,685.12	1/4	3,400.72	1/4	3,116.32	1/4	2,831.92	1/4	2,547.52	1/4	2,263.12	1/4	1,978.72
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,963.59	1/2	3,679.19	1/2	3,394.79	1/2	3,110.39	1/2	2,825.99	1/2	2,541.59	1/2	2,257.19	1/2	1,972.79
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,957.67	3/4	3,673.27	3/4	3,388.87	3/4	3,104.47	3/4	2,820.07	3/4	2,535.67	3/4	2,251.27	3/4	1,966.87
11		11		11		11	3,951.74	11	3,667.34	11	3,382.94	11	3,098.54	11	2,814.14	11	2,529.74	11	2,245.34	11	1,960.94
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,945.82	1/4	3,661.42	1/4	3,377.02	1/4	3,092.62	1/4	2,808.22	1/4	2,523.82	1/4	2,239.42	1/4	1,955.02
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,939.89	1/2	3,655.49	1/2	3,371.09	1/2	3,086.69	1/2	2,802.29	1/2	2,517.89	1/2	2,233.49	1/2	1,949.09
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,933.97	3/4	3,649.57	3/4	3,365.17	3/4	3,080.77	3/4	2,796.37	3/4	2,511.97	3/4	2,227.57	3/4	1,943.17

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 ON CENTERLINE AND 28'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 12321B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-11 1/4"

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
	1,937.24		1,652.84		1,368.44		1,084.04		799.88		515.75		231.47								
1/4	1,931.32	1/4	1,646.92	1/4	1,362.52	1/4	1,078.12	1/4	793.97	1/4	509.84	1/4	225.55	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,925.39	1/2	1,640.99	1/2	1,356.59	1/2	1,072.19	1/2	788.05	1/2	503.92	1/2	219.62	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,919.47	3/4	1,635.07	3/4	1,350.67	3/4	1,066.27	3/4	782.14	3/4	498.00	3/4	213.70	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,913.54	1	1,629.14	1	1,344.74	1	1,060.34	1	776.22	1	492.09	1	207.77	1	1	1	1	1	1	1	1
1/4	1,907.62	1/4	1,623.22	1/4	1,338.82	1/4	1,054.42	1/4	770.30	1/4	486.17	1/4	201.85	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,901.69	1/2	1,617.29	1/2	1,332.89	1/2	1,048.49	1/2	764.39	1/2	480.25	1/2	195.92	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,895.77	3/4	1,611.37	3/4	1,326.97	3/4	1,042.57	3/4	758.47	3/4	474.34	3/4	190.00	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,889.84	2	1,605.44	2	1,321.04	2	1,036.64	2	752.56	2	468.42	2	184.07	2	2	2	2	2	2	2	2
1/4	1,883.92	1/4	1,599.52	1/4	1,315.12	1/4	1,030.72	1/4	746.64	1/4	462.50	1/4	178.15	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,877.99	1/2	1,593.59	1/2	1,309.19	1/2	1,024.79	1/2	740.72	1/2	456.59	1/2	172.22	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,872.07	3/4	1,587.67	3/4	1,303.27	3/4	1,018.87	3/4	734.81	3/4	450.67	3/4	166.30	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,866.14	3	1,581.74	3	1,297.34	3	1,012.94	3	728.89	3	444.75	3	160.37	3	3	3	3	3	3	3	3
1/4	1,860.22	1/4	1,575.82	1/4	1,291.42	1/4	1,007.02	1/4	722.98	1/4	438.83	1/4	154.45	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,854.29	1/2	1,569.89	1/2	1,285.49	1/2	1,001.09	1/2	717.05	1/2	432.91	1/2	148.52	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,848.37	3/4	1,563.97	3/4	1,279.57	3/4	995.17	3/4	711.13	3/4	426.99	3/4	142.60	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,842.44	4	1,558.04	4	1,273.64	4	989.24	4	705.20	4	421.06	4	136.68	4	4	4	4	4	4	4	4
1/4	1,836.52	1/4	1,552.12	1/4	1,267.72	1/4	983.32	1/4	699.28	1/4	415.14	1/4	130.75	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,830.59	1/2	1,546.19	1/2	1,261.79	1/2	977.39	1/2	693.35	1/2	409.21	1/2	124.83	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,824.67	3/4	1,540.27	3/4	1,255.87	3/4	971.47	3/4	687.43	3/4	403.29	3/4	118.90	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,818.74	5	1,534.34	5	1,249.94	5	965.54	5	681.50	5	397.36	5	112.98	5	5	5	5	5	5	5	5
1/4	1,812.82	1/4	1,528.42	1/4	1,244.02	1/4	959.62	1/4	675.58	1/4	391.44	1/4	107.05	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.89	1/2	1,522.49	1/2	1,238.09	1/2	953.70	1/2	669.65	1/2	385.51	1/2	101.13	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,800.97	3/4	1,516.57	3/4	1,232.17	3/4	947.78	3/4	663.73	3/4	379.59	3/4	95.20	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,795.04	6	1,510.64	6	1,226.24	6	941.87	6	657.80	6	373.66	6	89.28	6	6	6	6	6	6	6	6
1/4	1,789.12	1/4	1,504.72	1/4	1,220.32	1/4	935.95	1/4	651.88	1/4	367.74	1/4	83.35	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,783.19	1/2	1,498.79	1/2	1,214.39	1/2	930.04	1/2	645.95	1/2	361.81	1/2	77.43	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,777.27	3/4	1,492.87	3/4	1,208.47	3/4	924.12	3/4	640.03	3/4	355.89	3/4	71.50	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,771.34	7	1,486.94	7	1,202.54	7	918.20	7	634.10	7	349.96	7	65.58	7	7	7	7	7	7	7	7
1/4	1,765.42	1/4	1,481.02	1/4	1,196.62	1/4	912.29	1/4	628.18	1/4	344.04	1/4	59.65	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,759.49	1/2	1,475.09	1/2	1,190.69	1/2	906.37	1/2	622.26	1/2	338.12	1/2	53.73	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,753.57	3/4	1,469.17	3/4	1,184.77	3/4	900.46	3/4	616.34	3/4	332.19	3/4	47.80	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,747.64	8	1,463.24	8	1,178.84	8	894.54	8	610.43	8	326.27	8	41.88	8	8	8	8	8	8	8	8
1/4	1,741.72	1/4	1,457.32	1/4	1,172.92	1/4	888.62	1/4	604.51	1/4	320.34	1/4	35.96	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,735.79	1/2	1,451.39	1/2	1,166.99	1/2	882.71	1/2	598.59	1/2	314.42	1/2	31.02	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,729.87	3/4	1,445.47	3/4	1,161.07	3/4	876.79	3/4	592.67	3/4	308.49	3/4	26.08	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,723.94	9	1,439.54	9	1,155.14	9	870.88	9	586.76	9	302.57	9	21.14	9	9	9	9	9	9	9	9
1/4	1,718.02	1/4	1,433.62	1/4	1,149.22	1/4	864.96	1/4	580.84	1/4	296.64	1/4	16.21	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,712.09	1/2	1,427.69	1/2	1,143.29	1/2	859.04	1/2	574.92	1/2	290.72	1/2	13.24	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,706.17	3/4	1,421.77	3/4	1,137.37	3/4	853.13	3/4	569.01	3/4	284.79	3/4	10.28	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,700.24	10	1,415.84	10	1,131.44	10	847.21	10	563.09	10	278.87	10	7.32	10	10	10	10	10	10	10	10
1/4	1,694.32	1/4	1,409.92	1/4	1,125.52	1/4	841.30	1/4	557.17	1/4	272.94	1/4	4.36	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,688.39	1/2	1,403.99	1/2	1,119.59	1/2	835.38	1/2	551.26	1/2	267.02	1/2	3.37	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,682.47	3/4	1,398.07	3/4	1,113.67	3/4	829.46	3/4	545.34	3/4	261.09	3/4	2.38	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,676.54	11	1,392.14	11	1,107.74	11	823.55	11	539.42	11	255.17	11	1.40	11	11	11	11	11	11	11	11
1/4	1,670.62	1/4	1,386.22	1/4	1,101.82	1/4	817.63	1/4	533.51	1/4	249.24	1/4	0.41	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,664.69	1/2	1,380.29	1/2	1,095.89	1/2	811.72	1/2	527.59	1/2	243.32	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,658.77	3/4	1,374.37	3/4	1,089.97	3/4	805.80	3/4	521.67	3/4	237.40	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 04/09/2009 CL - SW
CALCULATED: 04/10/2009 CL
PRINTED: 04/10/2009 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 04/2009

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