



BARGE "KIRBY 10220"

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	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/2	- 00-1/2	00-5/8	- 00-5/8	00-3/4	- 00-3/4	00-7/8	- 00-7/8
2 CENTER	00-0/8	- 00-0/8	00-1/8	- 00-1/8	00-1/8	- 00-1/8	00-1/4	- 00-1/4	00-1/4	- 00-1/4	00-3/8	- 00-3/8
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	00-1/2	- 00-1/2	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 - 00-1/4"
 FOR A MEASURED ULLAGE GAUGE OF 4'-00" ON 1 CENTER, THE TRIM CORRECTED ULLAGE IS 3'-11 3/4"

LENGTH BETWEEN DRAFT MARKS: 163'-06"

September 9, 2010

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

<http://www.pmacorp.net>



BARGE "KIRBY 10220"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

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		
							3,785.12		3,552.37		3,298.88		3,045.39		2,784.43		2,488.07		2,191.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,783.05	1/4	3,547.09	1/4	3,293.60	1/4	3,040.11	1/4	2,778.26	1/4	2,481.88	1/4	2,184.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,780.98	1/2	3,541.81	1/2	3,288.32	1/2	3,034.83	1/2	2,772.09	1/2	2,475.69	1/2	2,178.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,778.91	3/4	3,536.53	3/4	3,283.04	3/4	3,029.55	3/4	2,765.92	3/4	2,469.50	3/4	2,172.46		
1	1	1	1	1	1	1	3,776.84	1	3,531.24	1	3,277.76	1	3,024.27	1	2,759.75	1	2,463.31	1	2,166.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,772.70	1/4	3,525.96	1/4	3,272.48	1/4	3,018.99	1/4	2,753.58	1/4	2,457.13	1/4	2,160.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,768.55	1/2	3,520.68	1/2	3,267.19	1/2	3,013.71	1/2	2,747.41	1/2	2,450.94	1/2	2,153.89		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,764.41	3/4	3,515.40	3/4	3,261.91	3/4	3,008.43	3/4	2,741.24	3/4	2,444.75	3/4	2,147.71		
2	2	2	2	2	2	2	3,760.27	2	3,510.12	2	3,256.63	2	3,003.14	2	2,735.08	2	2,438.56	2	2,141.52		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,755.37	1/4	3,504.84	1/4	3,251.35	1/4	2,997.86	1/4	2,728.91	1/4	2,432.37	1/4	2,135.33		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,750.46	1/2	3,499.56	1/2	3,246.07	1/2	2,992.58	1/2	2,722.74	1/2	2,426.18	1/2	2,129.14		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,745.56	3/4	3,494.28	3/4	3,240.79	3/4	2,987.30	3/4	2,716.57	3/4	2,420.00	3/4	2,122.95		
3	3	3	3	3	3	3	3,740.66	3	3,489.00	3	3,235.51	3	2,982.02	3	2,710.40	3	2,413.81	3	2,116.76		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,735.49	1/4	3,483.72	1/4	3,230.23	1/4	2,976.74	1/4	2,704.23	1/4	2,407.62	1/4	2,110.58		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,730.32	1/2	3,478.43	1/2	3,224.95	1/2	2,971.46	1/2	2,698.06	1/2	2,401.43	1/2	2,104.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,725.15	3/4	3,473.15	3/4	3,219.67	3/4	2,966.18	3/4	2,691.89	3/4	2,395.24	3/4	2,098.20		
4	4	4	4	4	4	4	3,719.98	4	3,467.87	4	3,214.38	4	2,960.90	4	2,685.72	4	2,389.05	4	2,092.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,714.79	1/4	3,462.59	1/4	3,209.10	1/4	2,955.62	1/4	2,679.55	1/4	2,382.87	1/4	2,085.82		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,709.59	1/2	3,457.31	1/2	3,203.82	1/2	2,950.33	1/2	2,673.38	1/2	2,376.68	1/2	2,079.63		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,704.40	3/4	3,452.03	3/4	3,198.54	3/4	2,945.05	3/4	2,667.21	3/4	2,370.49	3/4	2,073.45		
5	5	5	5	5	5	5	3,699.21	5	3,446.75	5	3,193.26	5	2,939.77	5	2,661.04	5	2,364.30	5	2,067.26		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,694.01	1/4	3,441.47	1/4	3,187.98	1/4	2,934.49	1/4	2,654.87	1/4	2,358.11	1/4	2,061.07		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,688.81	1/2	3,436.19	1/2	3,182.70	1/2	2,929.21	1/2	2,648.70	1/2	2,351.92	1/2	2,054.88		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,683.62	3/4	3,430.91	3/4	3,177.42	3/4	2,923.93	3/4	2,642.53	3/4	2,345.74	3/4	2,048.69		
6	6	6	6	6	6	6	3,678.42	6	3,425.62	6	3,172.14	6	2,918.65	6	2,636.36	6	2,339.55	6	2,042.50		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,673.23	1/4	3,420.34	1/4	3,166.86	1/4	2,913.37	1/4	2,630.19	1/4	2,333.36	1/4	2,036.32		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,668.03	1/2	3,415.06	1/2	3,161.57	1/2	2,908.09	1/2	2,624.02	1/2	2,327.17	1/2	2,030.13		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,662.84	3/4	3,409.78	3/4	3,156.29	3/4	2,902.81	3/4	2,617.85	3/4	2,320.98	3/4	2,023.94		
7	7	7	7	7	7	7	3,657.64	7	3,404.50	7	3,151.01	7	2,897.52	7	2,611.69	7	2,314.79	7	2,017.75		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,652.45	1/4	3,399.22	1/4	3,145.73	1/4	2,892.24	1/4	2,605.52	1/4	2,308.60	1/4	2,011.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,647.25	1/2	3,393.94	1/2	3,140.45	1/2	2,886.96	1/2	2,599.35	1/2	2,302.42	1/2	2,005.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,642.06	3/4	3,388.66	3/4	3,135.17	3/4	2,881.68	3/4	2,593.18	3/4	2,296.23	3/4	1,999.18		
8	8	8	8	8	8	8	3,636.86	8	3,383.38	8	3,129.89	8	2,876.40	8	2,587.01	8	2,290.04	8	1,993.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,631.58	1/4	3,378.10	1/4	3,124.61	1/4	2,871.09	1/4	2,580.84	1/4	2,283.85	1/4	1,986.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,626.30	1/2	3,372.81	1/2	3,119.33	1/2	2,865.79	1/2	2,574.67	1/2	2,277.66	1/2	1,980.62		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,621.02	3/4	3,367.53	3/4	3,114.05	3/4	2,860.48	3/4	2,568.50	3/4	2,271.47	3/4	1,974.43		
9	9	9	9	9	9	9	3,615.74	9	3,362.25	9	3,108.76	9	2,855.18	9	2,562.33	9	2,265.29	9	1,968.24		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,610.46	1/4	3,356.97	1/4	3,103.48	1/4	2,849.87	1/4	2,556.14	1/4	2,259.10	1/4	1,962.05		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,605.18	1/2	3,351.69	1/2	3,098.20	1/2	2,844.56	1/2	2,549.95	1/2	2,252.91	1/2	1,955.87		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,599.90	3/4	3,346.41	3/4	3,092.92	3/4	2,839.26	3/4	2,543.76	3/4	2,246.72	3/4	1,949.68		
10	10	10	10	10	10	10	3,594.62	10	3,341.13	10	3,087.64	10	2,833.95	10	2,537.58	10	2,240.53	10	1,943.49		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,589.34	1/4	3,335.85	1/4	3,082.36	1/4	2,827.74	1/4	2,531.39	1/4	2,234.34	1/4	1,937.30		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,584.05	1/2	3,330.57	1/2	3,077.08	1/2	2,821.53	1/2	2,525.20	1/2	2,228.16	1/2	1,931.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,578.77	3/4	3,325.29	3/4	3,071.80	3/4	2,815.32	3/4	2,519.01	3/4	2,221.97	3/4	1,924.92		
11	11	11	11	11	11	11	3,573.49	11	3,320.00	11	3,066.52	11	2,809.11	11	2,512.82	11	2,215.78	11	1,918.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,568.21	1/4	3,314.72	1/4	3,061.24	1/4	2,802.94	1/4	2,506.63	1/4	2,209.59	1/4	1,912.55		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,786.16	1/2	3,562.93	1/2	3,309.44	1/2	3,055.95	1/2	2,796.77	1/2	2,500.45	1/2	2,203.40	1/2	1,906.36
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,785.64	3/4	3,557.65	3/4	3,304.16	3/4	3,050.67	3/4	2,790.60	3/4	2,494.26	3/4	2,197.21	3/4	1,900.17

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 32'-00" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

PRECISION MEASUREMENT
 & ANALYSIS, INC.
 P.O. Box 2092
 Pearland, Texas 77588
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BARGE "KIRBY 10220"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,893.98	0	1,596.71	0	1,299.25	0	1,001.80	0	710.39	0	412.81	0	115.16	0		0		0	
1/4	1,887.79	1/4	1,590.51	1/4	1,293.06	1/4	995.60	1/4	704.21	1/4	406.61	1/4	108.99	1/4		1/4		1/4	
1/2	1,881.61	1/2	1,584.32	1/2	1,286.86	1/2	989.40	1/2	698.03	1/2	400.41	1/2	102.82	1/2		1/2		1/2	
3/4	1,875.42	3/4	1,578.12	3/4	1,280.66	3/4	983.21	3/4	691.85	3/4	394.21	3/4	96.64	3/4		3/4		3/4	
1	1,869.23	1	1,571.92	1	1,274.47	1	977.01	1	685.66	1	388.01	1	90.47	1		1		1	
1/4	1,863.04	1/4	1,565.73	1/4	1,268.27	1/4	970.88	1/4	679.46	1/4	381.81	1/4	84.33	1/4		1/4		1/4	
1/2	1,856.85	1/2	1,559.53	1/2	1,262.07	1/2	964.74	1/2	673.26	1/2	375.61	1/2	78.19	1/2		1/2		1/2	
3/4	1,850.66	3/4	1,553.33	3/4	1,255.88	3/4	958.61	3/4	667.06	3/4	369.41	3/4	72.04	3/4		3/4		3/4	
2	1,844.47	2	1,547.13	2	1,249.68	2	952.47	2	660.86	2	363.20	2	65.90	2		2		2	
1/4	1,838.29	1/4	1,540.94	1/4	1,243.48	1/4	946.40	1/4	654.66	1/4	357.00	1/4	59.82	1/4		1/4		1/4	
1/2	1,832.10	1/2	1,534.74	1/2	1,237.28	1/2	940.33	1/2	648.46	1/2	350.80	1/2	53.73	1/2		1/2		1/2	
3/4	1,825.91	3/4	1,528.54	3/4	1,231.09	3/4	934.26	3/4	642.26	3/4	344.60	3/4	47.65	3/4		3/4		3/4	
3	1,819.72	3	1,522.35	3	1,224.89	3	928.19	3	636.06	3	338.40	3	41.56	3		3		3	
1/4	1,813.52	1/4	1,516.15	1/4	1,218.69	1/4	922.12	1/4	629.86	1/4	332.20	1/4	36.40	1/4		1/4		1/4	
1/2	1,807.33	1/2	1,509.95	1/2	1,212.50	1/2	916.05	1/2	623.66	1/2	326.00	1/2	31.23	1/2		1/2		1/2	
3/4	1,801.13	3/4	1,503.76	3/4	1,206.30	3/4	909.98	3/4	617.46	3/4	319.80	3/4	26.06	3/4		3/4		3/4	
4	1,794.93	4	1,497.56	4	1,200.10	4	903.91	4	611.26	4	313.59	4	20.89	4		4		4	
1/4	1,788.74	1/4	1,491.36	1/4	1,193.91	1/4	897.86	1/4	605.06	1/4	307.39	1/4	17.78	1/4		1/4		1/4	
1/2	1,782.54	1/2	1,485.16	1/2	1,187.71	1/2	891.81	1/2	598.85	1/2	301.19	1/2	14.68	1/2		1/2		1/2	
3/4	1,776.34	3/4	1,478.97	3/4	1,181.51	3/4	885.75	3/4	592.65	3/4	294.99	3/4	11.57	3/4		3/4		3/4	
5	1,770.15	5	1,472.77	5	1,175.31	5	879.70	5	586.45	5	288.79	5	8.47	5		5		5	
1/4	1,763.95	1/4	1,466.57	1/4	1,169.12	1/4	873.66	1/4	580.25	1/4	282.59	1/4	7.43	1/4		1/4		1/4	
1/2	1,757.75	1/2	1,460.38	1/2	1,162.92	1/2	867.62	1/2	574.05	1/2	276.39	1/2	6.40	1/2		1/2		1/2	
3/4	1,751.56	3/4	1,454.18	3/4	1,156.72	3/4	861.59	3/4	567.85	3/4	270.18	3/4	5.36	3/4		3/4		3/4	
6	1,745.36	6	1,447.98	6	1,150.53	6	855.55	6	561.65	6	263.98	6	4.33	6		6		6	
1/4	1,739.16	1/4	1,441.79	1/4	1,144.33	1/4	849.51	1/4	555.44	1/4	257.78	1/4		1/4		1/4		1/4	
1/2	1,732.97	1/2	1,435.59	1/2	1,138.13	1/2	843.47	1/2	549.24	1/2	251.58	1/2		1/2		1/2		1/2	
3/4	1,726.77	3/4	1,429.39	3/4	1,131.94	3/4	837.44	3/4	543.04	3/4	245.38	3/4		3/4		3/4		3/4	
7	1,720.58	7	1,423.19	7	1,125.74	7	831.40	7	536.84	7	239.18	7		7		7		7	
1/4	1,714.38	1/4	1,417.00	1/4	1,119.54	1/4	825.36	1/4	530.64	1/4	232.98	1/4		1/4		1/4		1/4	
1/2	1,708.19	1/2	1,410.80	1/2	1,113.34	1/2	819.32	1/2	524.44	1/2	226.78	1/2		1/2		1/2		1/2	
3/4	1,702.00	3/4	1,404.60	3/4	1,107.15	3/4	813.29	3/4	518.24	3/4	220.57	3/4		3/4		3/4		3/4	
8	1,695.80	8	1,398.41	8	1,100.95	8	807.25	8	512.04	8	214.37	8		8		8		8	
1/4	1,689.61	1/4	1,392.21	1/4	1,094.75	1/4	801.21	1/4	505.83	1/4	208.17	1/4		1/4		1/4		1/4	
1/2	1,683.42	1/2	1,386.01	1/2	1,088.56	1/2	795.17	1/2	499.63	1/2	201.97	1/2		1/2		1/2		1/2	
3/4	1,677.22	3/4	1,379.82	3/4	1,082.36	3/4	789.14	3/4	493.43	3/4	195.77	3/4		3/4		3/4		3/4	
9	1,671.03	9	1,373.62	9	1,076.16	9	783.10	9	487.23	9	189.57	9		9		9		9	
1/4	1,664.84	1/4	1,367.42	1/4	1,069.97	1/4	777.06	1/4	481.03	1/4	183.37	1/4		1/4		1/4		1/4	
1/2	1,658.64	1/2	1,361.22	1/2	1,063.77	1/2	771.02	1/2	474.83	1/2	177.17	1/2		1/2		1/2		1/2	
3/4	1,652.45	3/4	1,355.03	3/4	1,057.57	3/4	764.99	3/4	468.63	3/4	170.97	3/4		3/4		3/4		3/4	
10	1,646.26	10	1,348.83	10	1,051.37	10	758.95	10	462.43	10	164.77	10		10		10		10	
1/4	1,640.06	1/4	1,342.63	1/4	1,045.18	1/4	752.91	1/4	456.22	1/4	158.56	1/4		1/4		1/4		1/4	
1/2	1,633.87	1/2	1,336.44	1/2	1,038.98	1/2	746.87	1/2	450.02	1/2	152.35	1/2		1/2		1/2		1/2	
3/4	1,627.68	3/4	1,330.24	3/4	1,032.78	3/4	740.84	3/4	443.82	3/4	146.15	3/4		3/4		3/4		3/4	
11	1,621.48	11	1,324.04	11	1,026.59	11	734.80	11	437.62	11	139.94	11		11		11		11	
1/4	1,615.29	1/4	1,317.85	1/4	1,020.39	1/4	728.70	1/4	431.42	1/4	133.74	1/4		1/4		1/4		1/4	
1/2	1,609.10	1/2	1,311.65	1/2	1,014.19	1/2	722.60	1/2	425.22	1/2	127.55	1/2		1/2		1/2		1/2	
3/4	1,602.90	3/4	1,305.45	3/4	1,008.00	3/4	716.50	3/4	419.02	3/4	121.36	3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 CL - SW
CALCULATED: 09/09/2010 CL
PRINTED: 09/09/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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



BARGE "KIRBY 10220"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	3,492.79	0	3,265.68	0	3,003.32	0	2,740.97	0	2,478.21	0	2,214.47	0	1,950.73
1/4		1/4		1/4		1/4	3,492.33	1/4	3,260.21	1/4	2,997.86	1/4	2,735.50	1/4	2,472.72	1/4	2,208.98	1/4	1,945.24
1/2		1/2		1/2		1/2	3,491.87	1/2	3,254.75	1/2	2,992.39	1/2	2,730.04	1/2	2,467.22	1/2	2,203.48	1/2	1,939.74
3/4		3/4		3/4		3/4	3,490.04	3/4	3,249.28	3/4	2,986.93	3/4	2,724.57	3/4	2,461.73	3/4	2,197.99	3/4	1,934.25
1		1		1		1	3,488.21	1	3,243.81	1	2,981.46	1	2,719.11	1	2,456.23	1	2,192.49	1	1,928.75
1/4		1/4		1/4		1/4	3,486.37	1/4	3,238.35	1/4	2,976.00	1/4	2,713.64	1/4	2,450.74	1/4	2,187.00	1/4	1,923.26
1/2		1/2		1/2		1/2	3,484.54	1/2	3,232.88	1/2	2,970.53	1/2	2,708.18	1/2	2,445.24	1/2	2,181.50	1/2	1,917.76
3/4		3/4		3/4		3/4	3,480.88	3/4	3,227.42	3/4	2,965.06	3/4	2,702.71	3/4	2,439.75	3/4	2,176.01	3/4	1,912.27
2		2		2		2	3,477.21	2	3,221.95	2	2,959.60	2	2,697.24	2	2,434.26	2	2,170.51	2	1,906.77
1/4		1/4		1/4		1/4	3,473.54	1/4	3,216.49	1/4	2,954.13	1/4	2,691.78	1/4	2,428.76	1/4	2,165.02	1/4	1,901.28
1/2		1/2		1/2		1/2	3,469.88	1/2	3,211.02	1/2	2,948.67	1/2	2,686.31	1/2	2,423.27	1/2	2,159.53	1/2	1,895.78
3/4		3/4		3/4		3/4	3,464.77	3/4	3,205.55	3/4	2,943.20	3/4	2,680.85	3/4	2,417.77	3/4	2,154.03	3/4	1,890.29
3		3		3		3	3,459.66	3	3,200.09	3	2,937.74	3	2,675.38	3	2,412.28	3	2,148.54	3	1,884.80
1/4		1/4		1/4		1/4	3,454.55	1/4	3,194.62	1/4	2,932.27	1/4	2,669.92	1/4	2,406.78	1/4	2,143.04	1/4	1,879.30
1/2		1/2		1/2		1/2	3,449.44	1/2	3,189.16	1/2	2,926.80	1/2	2,664.45	1/2	2,401.29	1/2	2,137.55	1/2	1,873.81
3/4		3/4		3/4		3/4	3,444.09	3/4	3,183.69	3/4	2,921.34	3/4	2,658.98	3/4	2,395.79	3/4	2,132.05	3/4	1,868.31
4		4		4		4	3,438.75	4	3,178.23	4	2,915.87	4	2,653.52	4	2,390.30	4	2,126.56	4	1,862.82
1/4		1/4		1/4		1/4	3,433.40	1/4	3,172.76	1/4	2,910.41	1/4	2,648.05	1/4	2,384.80	1/4	2,121.06	1/4	1,857.32
1/2		1/2		1/2		1/2	3,428.05	1/2	3,167.29	1/2	2,904.94	1/2	2,642.59	1/2	2,379.31	1/2	2,115.57	1/2	1,851.83
3/4		3/4		3/4		3/4	3,422.69	3/4	3,161.83	3/4	2,899.48	3/4	2,637.12	3/4	2,373.81	3/4	2,110.07	3/4	1,846.33
5		5		5		5	3,417.33	5	3,156.36	5	2,894.01	5	2,631.66	5	2,368.32	5	2,104.58	5	1,840.84
1/4		1/4		1/4		1/4	3,411.96	1/4	3,150.90	1/4	2,888.54	1/4	2,626.19	1/4	2,362.83	1/4	2,099.08	1/4	1,835.34
1/2		1/2		1/2		1/2	3,406.60	1/2	3,145.43	1/2	2,883.08	1/2	2,620.72	1/2	2,357.33	1/2	2,093.59	1/2	1,829.85
3/4		3/4		3/4		3/4	3,401.23	3/4	3,139.97	3/4	2,877.61	3/4	2,615.26	3/4	2,351.84	3/4	2,088.10	3/4	1,824.35
6		6		6		6	3,395.86	6	3,134.50	6	2,872.15	6	2,609.79	6	2,346.34	6	2,082.60	6	1,818.86
1/4		1/4		1/4		1/4	3,390.49	1/4	3,129.03	1/4	2,866.68	1/4	2,604.33	1/4	2,340.85	1/4	2,077.11	1/4	1,813.37
1/2		1/2		1/2		1/2	3,385.12	1/2	3,123.57	1/2	2,861.22	1/2	2,598.86	1/2	2,335.35	1/2	2,071.61	1/2	1,807.87
3/4		3/4		3/4		3/4	3,379.75	3/4	3,118.10	3/4	2,855.75	3/4	2,593.40	3/4	2,329.86	3/4	2,066.12	3/4	1,802.38
7		7		7		7	3,374.39	7	3,112.64	7	2,850.28	7	2,587.93	7	2,324.36	7	2,060.62	7	1,796.88
1/4		1/4		1/4		1/4	3,369.02	1/4	3,107.17	1/4	2,844.82	1/4	2,582.46	1/4	2,318.87	1/4	2,055.13	1/4	1,791.39
1/2		1/2		1/2		1/2	3,363.66	1/2	3,101.71	1/2	2,839.35	1/2	2,577.00	1/2	2,313.37	1/2	2,049.63	1/2	1,785.89
3/4		3/4		3/4		3/4	3,358.29	3/4	3,096.24	3/4	2,833.89	3/4	2,571.53	3/4	2,307.88	3/4	2,044.14	3/4	1,780.40
8		8		8		8	3,352.93	8	3,090.77	8	2,828.42	8	2,566.07	8	2,302.38	8	2,038.64	8	1,774.90
1/4		1/4		1/4		1/4	3,347.56	1/4	3,085.31	1/4	2,822.96	1/4	2,560.60	1/4	2,296.89	1/4	2,033.15	1/4	1,769.41
1/2		1/2		1/2		1/2	3,342.20	1/2	3,079.84	1/2	2,817.49	1/2	2,555.14	1/2	2,291.40	1/2	2,027.65	1/2	1,763.91
3/4		3/4		3/4		3/4	3,336.73	3/4	3,074.38	3/4	2,812.02	3/4	2,549.64	3/4	2,285.90	3/4	2,022.16	3/4	1,758.42
9		9		9		9	3,331.27	9	3,068.91	9	2,806.56	9	2,544.15	9	2,280.41	9	2,016.67	9	1,752.92
1/4		1/4		1/4		1/4	3,325.80	1/4	3,063.45	1/4	2,801.09	1/4	2,538.65	1/4	2,274.91	1/4	2,011.17	1/4	1,747.43
1/2		1/2		1/2		1/2	3,320.33	1/2	3,057.98	1/2	2,795.63	1/2	2,533.16	1/2	2,269.42	1/2	2,005.68	1/2	1,741.94
3/4		3/4		3/4		3/4	3,314.87	3/4	3,052.52	3/4	2,790.16	3/4	2,527.66	3/4	2,263.92	3/4	2,000.18	3/4	1,736.44
10		10		10		10	3,309.40	10	3,047.05	10	2,784.70	10	2,522.17	10	2,258.43	10	1,994.69	10	1,730.95
1/4		1/4		1/4		1/4	3,303.94	1/4	3,041.58	1/4	2,779.23	1/4	2,516.67	1/4	2,252.93	1/4	1,989.19	1/4	1,725.45
1/2		1/2		1/2		1/2	3,298.47	1/2	3,036.12	1/2	2,773.76	1/2	2,511.18	1/2	2,247.44	1/2	1,983.70	1/2	1,719.96
3/4		3/4		3/4		3/4	3,293.01	3/4	3,030.65	3/4	2,768.30	3/4	2,505.68	3/4	2,241.94	3/4	1,978.20	3/4	1,714.46
11		11		11		11	3,287.54	11	3,025.19	11	2,762.83	11	2,500.19	11	2,236.45	11	1,972.71	11	1,708.97
1/4		1/4		1/4		1/4	3,282.07	1/4	3,019.72	1/4	2,757.37	1/4	2,494.70	1/4	2,230.95	1/4	1,967.21	1/4	1,703.47
1/2		1/2		1/2		1/2	3,276.61	1/2	3,014.26	1/2	2,751.90	1/2	2,489.20	1/2	2,225.46	1/2	1,961.72	1/2	1,697.98
3/4		3/4		3/4		3/4	3,271.14	3/4	3,008.79	3/4	2,746.44	3/4	2,483.71	3/4	2,219.97	3/4	1,956.22	3/4	1,692.48

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 27'-03" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10220"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-06 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	1,686.99	0	1,423.25	0	1,159.33	0	897.11	0	637.37	0	373.56	0	109.72	0		0		0	
1/4	1,681.49	1/4	1,417.75	1/4	1,153.83	1/4	891.70	1/4	631.91	1/4	368.06	1/4	104.24	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,676.00	1/2	1,412.26	1/2	1,148.34	1/2	886.29	1/2	626.46	1/2	362.57	1/2	98.76	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,670.51	3/4	1,406.76	3/4	1,142.84	3/4	880.87	3/4	620.96	3/4	357.07	3/4	93.30	3/4	3/4	3/4	3/4	3/4	3/4
1	1,665.01	1	1,401.26	1	1,137.34	1	875.46	1	615.47	1	351.57	1	87.83	1	1	1	1	1	1
1/4	1,659.52	1/4	1,395.76	1/4	1,131.84	1/4	870.05	1/4	609.97	1/4	346.07	1/4	82.37	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,654.02	1/2	1,390.27	1/2	1,126.34	1/2	864.63	1/2	604.47	1/2	340.57	1/2	76.91	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,648.53	3/4	1,384.77	3/4	1,120.84	3/4	859.22	3/4	598.98	3/4	335.08	3/4	71.47	3/4	3/4	3/4	3/4	3/4	3/4
2	1,643.03	2	1,379.27	2	1,115.35	2	853.81	2	593.48	2	329.58	2	66.04	2	2	2	2	2	2
1/4	1,637.54	1/4	1,373.77	1/4	1,109.85	1/4	848.39	1/4	587.98	1/4	324.08	1/4	60.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,632.04	1/2	1,368.27	1/2	1,104.35	1/2	842.98	1/2	582.48	1/2	318.58	1/2	55.17	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,626.55	3/4	1,362.77	3/4	1,098.85	3/4	837.57	3/4	576.98	3/4	313.08	3/4	49.79	3/4	3/4	3/4	3/4	3/4	3/4
3	1,621.05	3	1,357.28	3	1,093.35	3	832.15	3	571.49	3	307.59	3	44.40	3	3	3	3	3	3
1/4	1,615.56	1/4	1,351.78	1/4	1,087.85	1/4	826.74	1/4	565.99	1/4	302.09	1/4	39.02	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,610.07	1/2	1,346.28	1/2	1,082.36	1/2	821.33	1/2	560.49	1/2	296.59	1/2	33.63	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,604.57	3/4	1,340.78	3/4	1,076.86	3/4	815.92	3/4	554.99	3/4	291.09	3/4	29.06	3/4	3/4	3/4	3/4	3/4	3/4
4	1,599.08	4	1,335.28	4	1,071.36	4	810.51	4	549.49	4	285.59	4	24.49	4	4	4	4	4	4
1/4	1,593.58	1/4	1,329.78	1/4	1,065.86	1/4	805.10	1/4	544.00	1/4	280.10	1/4	19.91	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,588.09	1/2	1,324.29	1/2	1,060.36	1/2	799.70	1/2	538.50	1/2	274.60	1/2	15.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,582.59	3/4	1,318.79	3/4	1,054.86	3/4	794.29	3/4	533.00	3/4	269.10	3/4	12.59	3/4	3/4	3/4	3/4	3/4	3/4
5	1,577.10	5	1,313.29	5	1,049.37	5	788.88	5	527.50	5	263.60	5	9.84	5	5	5	5	5	5
1/4	1,571.60	1/4	1,307.79	1/4	1,043.87	1/4	783.47	1/4	522.00	1/4	258.11	1/4	7.09	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,566.11	1/2	1,302.29	1/2	1,038.37	1/2	778.06	1/2	516.51	1/2	252.61	1/2	4.34	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,560.61	3/4	1,296.79	3/4	1,032.87	3/4	772.66	3/4	511.01	3/4	247.11	3/4	3.43	3/4	3/4	3/4	3/4	3/4	3/4
6	1,555.12	6	1,291.29	6	1,027.37	6	767.25	6	505.51	6	241.61	6	2.51	6	6	6	6	6	6
1/4	1,549.62	1/4	1,285.80	1/4	1,021.87	1/4	761.84	1/4	500.01	1/4	236.11	1/4	1.60	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,544.13	1/2	1,280.30	1/2	1,016.37	1/2	756.43	1/2	494.52	1/2	230.62	1/2	0.68	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,538.64	3/4	1,274.80	3/4	1,010.92	3/4	751.02	3/4	489.02	3/4	225.12	3/4		3/4	3/4	3/4	3/4	3/4	3/4
7	1,533.14	7	1,269.30	7	1,005.46	7	745.62	7	483.52	7	219.62	7		7	7	7	7	7	7
1/4	1,527.65	1/4	1,263.80	1/4	1,000.01	1/4	740.21	1/4	478.02	1/4	214.12	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,522.15	1/2	1,258.30	1/2	994.55	1/2	734.80	1/2	472.52	1/2	208.62	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,516.66	3/4	1,252.81	3/4	989.14	3/4	729.39	3/4	467.03	3/4	203.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4
8	1,511.16	8	1,247.31	8	983.73	8	723.98	8	461.53	8	197.63	8		8	8	8	8	8	8
1/4	1,505.67	1/4	1,241.81	1/4	978.31	1/4	718.58	1/4	456.03	1/4	192.13	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,500.17	1/2	1,236.31	1/2	972.90	1/2	713.17	1/2	450.53	1/2	186.63	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,494.68	3/4	1,230.81	3/4	967.49	3/4	707.76	3/4	445.03	3/4	181.13	3/4		3/4	3/4	3/4	3/4	3/4	3/4
9	1,489.18	9	1,225.31	9	962.07	9	702.35	9	439.54	9	175.64	9		9	9	9	9	9	9
1/4	1,483.69	1/4	1,219.82	1/4	956.66	1/4	696.94	1/4	434.04	1/4	170.14	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,478.19	1/2	1,214.32	1/2	951.25	1/2	691.54	1/2	428.54	1/2	164.64	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,472.70	3/4	1,208.82	3/4	945.83	3/4	686.13	3/4	423.04	3/4	159.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4
10	1,467.21	10	1,203.32	10	940.42	10	680.72	10	417.54	10	153.65	10		10	10	10	10	10	10
1/4	1,461.71	1/4	1,197.82	1/4	935.01	1/4	675.31	1/4	412.05	1/4	148.15	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,456.22	1/2	1,192.32	1/2	929.59	1/2	669.90	1/2	406.55	1/2	142.65	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,450.72	3/4	1,186.83	3/4	924.18	3/4	664.50	3/4	401.05	3/4	137.16	3/4		3/4	3/4	3/4	3/4	3/4	3/4
11	1,445.23	11	1,181.33	11	918.77	11	659.09	11	395.55	11	131.67	11		11	11	11	11	11	11
1/4	1,439.73	1/4	1,175.83	1/4	913.35	1/4	653.68	1/4	390.06	1/4	126.18	1/4		1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,434.24	1/2	1,170.33	1/2	907.94	1/2	648.28	1/2	384.56	1/2	120.68	1/2		1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,428.74	3/4	1,164.83	3/4	902.53	3/4	642.82	3/4	379.06	3/4	115.20	3/4		3/4	3/4	3/4	3/4	3/4	3/4

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 CL - SW
CALCULATED: 09/09/2010 CL
PRINTED: 09/09/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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



BARGE "KIRBY 10220"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.	
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT
0		0		0		0	3,463.93	0	3,217.84	0	2,957.51	0	2,697.18	0	2,436.30	0	2,174.57	0	1,912.84
1/4		1/4		1/4		1/4	3,462.11	1/4	3,212.41	1/4	2,952.08	1/4	2,691.76	1/4	2,430.84	1/4	2,169.12	1/4	1,907.39
1/2		1/2		1/2		1/2	3,458.48	1/2	3,206.99	1/2	2,946.66	1/2	2,686.33	1/2	2,425.39	1/2	2,163.66	1/2	1,901.93
3/4		3/4		3/4		3/4	3,454.84	3/4	3,201.57	3/4	2,941.24	3/4	2,680.91	3/4	2,419.94	3/4	2,158.21	3/4	1,896.48
1		1		1		1	3,451.20	1	3,196.14	1	2,935.81	1	2,675.49	1	2,414.49	1	2,152.76	1	1,891.03
1/4		1/4		1/4		1/4	3,447.56	1/4	3,190.72	1/4	2,930.39	1/4	2,670.06	1/4	2,409.03	1/4	2,147.30	1/4	1,885.57
1/2		1/2		1/2		1/2	3,442.49	1/2	3,185.30	1/2	2,924.97	1/2	2,664.64	1/2	2,403.58	1/2	2,141.85	1/2	1,880.12
3/4		3/4		3/4		3/4	3,437.42	3/4	3,179.87	3/4	2,919.54	3/4	2,659.22	3/4	2,398.13	3/4	2,136.40	3/4	1,874.67
2		2		2		2	3,432.35	2	3,174.45	2	2,914.12	2	2,653.79	2	2,392.68	2	2,130.95	2	1,869.22
1/4		1/4		1/4		1/4	3,427.28	1/4	3,169.02	1/4	2,908.70	1/4	2,648.37	1/4	2,387.22	1/4	2,125.49	1/4	1,863.76
1/2		1/2		1/2		1/2	3,421.98	1/2	3,163.60	1/2	2,903.27	1/2	2,642.95	1/2	2,381.77	1/2	2,120.04	1/2	1,858.31
3/4		3/4		3/4		3/4	3,416.67	3/4	3,158.18	3/4	2,897.85	3/4	2,637.52	3/4	2,376.32	3/4	2,114.59	3/4	1,852.86
3		3		3		3	3,411.37	3	3,152.75	3	2,892.43	3	2,632.10	3	2,370.87	3	2,109.14	3	1,847.41
1/4		1/4		1/4		1/4	3,406.07	1/4	3,147.33	1/4	2,887.00	1/4	2,626.67	1/4	2,365.41	1/4	2,103.68	1/4	1,841.95
1/2		1/2		1/2		1/2	3,400.75	1/2	3,141.91	1/2	2,881.58	1/2	2,621.25	1/2	2,359.96	1/2	2,098.23	1/2	1,836.50
3/4		3/4		3/4		3/4	3,395.43	3/4	3,136.48	3/4	2,876.16	3/4	2,615.83	3/4	2,354.51	3/4	2,092.78	3/4	1,831.05
4		4		4		4	3,390.11	4	3,131.06	4	2,870.73	4	2,610.40	4	2,349.05	4	2,087.32	4	1,825.60
1/4		1/4		1/4		1/4	3,384.79	1/4	3,125.64	1/4	2,865.31	1/4	2,604.98	1/4	2,343.60	1/4	2,081.87	1/4	1,820.14
1/2		1/2		1/2		1/2	3,379.46	1/2	3,120.21	1/2	2,859.89	1/2	2,599.56	1/2	2,338.15	1/2	2,076.42	1/2	1,814.69
3/4		3/4		3/4		3/4	3,374.13	3/4	3,114.79	3/4	2,854.46	3/4	2,594.13	3/4	2,332.70	3/4	2,070.97	3/4	1,809.24
5		5		5		5	3,368.81	5	3,109.37	5	2,849.04	5	2,588.71	5	2,327.24	5	2,065.51	5	1,803.78
1/4		1/4		1/4		1/4	3,363.48	1/4	3,103.94	1/4	2,843.61	1/4	2,583.29	1/4	2,321.79	1/4	2,060.06	1/4	1,798.33
1/2		1/2		1/2		1/2	3,358.15	1/2	3,098.52	1/2	2,838.19	1/2	2,577.86	1/2	2,316.34	1/2	2,054.61	1/2	1,792.88
3/4		3/4		3/4		3/4	3,352.83	3/4	3,093.10	3/4	2,832.77	3/4	2,572.44	3/4	2,310.89	3/4	2,049.16	3/4	1,787.43
6		6		6		6	3,347.50	6	3,087.67	6	2,827.34	6	2,567.02	6	2,305.43	6	2,043.70	6	1,781.97
1/4		1/4		1/4		1/4	3,342.18	1/4	3,082.25	1/4	2,821.92	1/4	2,561.59	1/4	2,299.98	1/4	2,038.25	1/4	1,776.52
1/2		1/2		1/2		1/2	3,336.86	1/2	3,076.83	1/2	2,816.50	1/2	2,556.17	1/2	2,294.53	1/2	2,032.80	1/2	1,771.07
3/4		3/4		3/4		3/4	3,331.53	3/4	3,071.40	3/4	2,811.07	3/4	2,550.75	3/4	2,289.07	3/4	2,027.35	3/4	1,765.62
7		7		7		7	3,326.21	7	3,065.98	7	2,805.65	7	2,545.32	7	2,283.62	7	2,021.89	7	1,760.16
1/4		1/4		1/4		1/4	3,320.88	1/4	3,060.55	1/4	2,800.23	1/4	2,539.90	1/4	2,278.17	1/4	2,016.44	1/4	1,754.71
1/2		1/2		1/2		1/2	3,315.46	1/2	3,055.13	1/2	2,794.80	1/2	2,534.45	1/2	2,272.72	1/2	2,010.99	1/2	1,749.26
3/4		3/4		3/4		3/4	3,310.04	3/4	3,049.71	3/4	2,789.38	3/4	2,528.99	3/4	2,267.26	3/4	2,005.53	3/4	1,743.80
8		8		8		8	3,304.61	8	3,044.28	8	2,783.96	8	2,523.54	8	2,261.81	8	2,000.08	8	1,738.35
1/4		1/4		1/4		1/4	3,299.19	1/4	3,038.86	1/4	2,778.53	1/4	2,518.09	1/4	2,256.36	1/4	1,994.63	1/4	1,732.90
1/2		1/2		1/2		1/2	3,293.77	1/2	3,033.44	1/2	2,773.11	1/2	2,512.64	1/2	2,250.91	1/2	1,989.18	1/2	1,727.45
3/4		3/4		3/4		3/4	3,288.34	3/4	3,028.01	3/4	2,767.69	3/4	2,507.18	3/4	2,245.45	3/4	1,983.72	3/4	1,721.99
9		9		9		9	3,282.92	9	3,022.59	9	2,762.26	9	2,501.73	9	2,240.00	9	1,978.27	9	1,716.54
1/4		1/4		1/4		1/4	3,277.49	1/4	3,017.17	1/4	2,756.84	1/4	2,496.28	1/4	2,234.55	1/4	1,972.82	1/4	1,711.09
1/2		1/2		1/2		1/2	3,272.07	1/2	3,011.74	1/2	2,751.42	1/2	2,490.82	1/2	2,229.10	1/2	1,967.37	1/2	1,705.64
3/4		3/4		3/4		3/4	3,266.65	3/4	3,006.32	3/4	2,745.99	3/4	2,485.37	3/4	2,223.64	3/4	1,961.91	3/4	1,700.18
10		10		10		10	3,261.22	10	3,000.90	10	2,740.57	10	2,479.92	10	2,218.19	10	1,956.46	10	1,694.73
1/4		1/4		1/4		1/4	3,255.80	1/4	2,995.47	1/4	2,735.14	1/4	2,474.47	1/4	2,212.74	1/4	1,951.01	1/4	1,689.28
1/2		1/2		1/2		1/2	3,250.38	1/2	2,990.05	1/2	2,729.72	1/2	2,469.01	1/2	2,207.28	1/2	1,945.55	1/2	1,683.83
3/4		3/4		3/4		3/4	3,470.30	3/4	3,244.95	3/4	2,984.63	3/4	2,724.30	3/4	2,463.56	3/4	2,201.83	3/4	1,940.10
11		11		11		11	3,469.84	11	3,239.53	11	2,979.20	11	2,718.87	11	2,458.11	11	2,196.38	11	1,934.65
1/4		1/4		1/4		1/4	3,469.39	1/4	3,234.11	1/4	2,973.78	1/4	2,713.45	1/4	2,452.66	1/4	2,190.93	1/4	1,929.20
1/2		1/2		1/2		1/2	3,467.57	1/2	3,228.68	1/2	2,968.36	1/2	2,708.03	1/2	2,447.20	1/2	2,185.47	1/2	1,923.74
3/4		3/4		3/4		3/4	3,465.75	3/4	3,223.26	3/4	2,962.93	3/4	2,702.60	3/4	2,441.75	3/4	2,180.02	3/4	1,918.29

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 27'-06" FORWARD OF AFT BULKHEAD.

PRECISION MEASUREMENT
& ANALYSIS, INC.

P.O. Box 2092

Pearland, Texas 77588

<http://www.pmacorp.net>



BARGE "KIRBY 10220"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/4"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,651.11	0	1,389.37	0	1,127.47	0	866.55	0	605.31	0	343.43	0	81.75	0		0		0	
1/4	1,645.66	1/4	1,383.91	1/4	1,122.01	1/4	861.13	1/4	599.85	1/4	337.97	1/4	76.32	1/4	1/4	1/4		1/4	
1/2	1,640.20	1/2	1,378.46	1/2	1,116.55	1/2	855.71	1/2	594.40	1/2	332.52	1/2	70.93	1/2	1/2	1/2		1/2	
3/4	1,634.75	3/4	1,373.00	3/4	1,111.10	3/4	850.29	3/4	588.94	3/4	327.06	3/4	65.54	3/4	3/4	3/4		3/4	
1	1,629.30	1	1,367.54	1	1,105.64	1	844.87	1	583.48	1	321.61	1	60.15	1	1	1		1	
1/4	1,623.85	1/4	1,362.09	1/4	1,100.18	1/4	839.45	1/4	578.03	1/4	316.15	1/4	54.75	1/4	1/4	1/4		1/4	
1/2	1,618.39	1/2	1,356.63	1/2	1,094.73	1/2	834.03	1/2	572.57	1/2	310.69	1/2	49.41	1/2	1/2	1/2		1/2	
3/4	1,612.94	3/4	1,351.17	3/4	1,089.27	3/4	828.61	3/4	567.12	3/4	305.24	3/4	44.07	3/4	3/4	3/4		3/4	
2	1,607.49	2	1,345.72	2	1,083.82	2	823.19	2	561.66	2	299.78	2	38.72	2	2	2		2	
1/4	1,602.03	1/4	1,340.26	1/4	1,078.36	1/4	817.77	1/4	556.21	1/4	294.33	1/4	33.38	1/4	1/4	1/4		1/4	
1/2	1,596.58	1/2	1,334.81	1/2	1,072.90	1/2	812.36	1/2	550.75	1/2	288.87	1/2	28.84	1/2	1/2	1/2		1/2	
3/4	1,591.13	3/4	1,329.35	3/4	1,067.45	3/4	806.95	3/4	545.29	3/4	283.42	3/4	24.30	3/4	3/4	3/4		3/4	
3	1,585.68	3	1,323.89	3	1,061.99	3	801.53	3	539.84	3	277.96	3	19.77	3	3	3		3	
1/4	1,580.22	1/4	1,318.44	1/4	1,056.53	1/4	796.12	1/4	534.38	1/4	272.50	1/4	15.23	1/4	1/4	1/4		1/4	
1/2	1,574.77	1/2	1,312.98	1/2	1,051.08	1/2	790.67	1/2	528.93	1/2	267.05	1/2	12.50	1/2	1/2	1/2		1/2	
3/4	1,569.32	3/4	1,307.52	3/4	1,045.62	3/4	785.22	3/4	523.47	3/4	261.59	3/4	9.77	3/4	3/4	3/4		3/4	
4	1,563.87	4	1,302.07	4	1,040.17	4	779.76	4	518.01	4	256.14	4	7.04	4	4	4		4	
1/4	1,558.41	1/4	1,296.61	1/4	1,034.71	1/4	774.31	1/4	512.56	1/4	250.68	1/4	4.32	1/4	1/4	1/4		1/4	
1/2	1,552.96	1/2	1,291.16	1/2	1,029.25	1/2	768.86	1/2	507.10	1/2	245.22	1/2	3.41	1/2	1/2	1/2		1/2	
3/4	1,547.51	3/4	1,285.70	3/4	1,023.80	3/4	763.41	3/4	501.65	3/4	239.77	3/4	2.50	3/4	3/4	3/4		3/4	
5	1,542.05	5	1,280.24	5	1,018.34	5	757.96	5	496.19	5	234.31	5	1.59	5	5	5		5	
1/4	1,536.60	1/4	1,274.79	1/4	1,012.88	1/4	752.51	1/4	490.74	1/4	228.86	1/4	0.68	1/4	1/4	1/4		1/4	
1/2	1,531.15	1/2	1,269.33	1/2	1,007.46	1/2	747.06	1/2	485.28	1/2	223.40	1/2		1/2	1/2	1/2		1/2	
3/4	1,525.70	3/4	1,263.87	3/4	1,002.04	3/4	741.61	3/4	479.82	3/4	217.95	3/4		3/4	3/4	3/4		3/4	
6	1,520.24	6	1,258.42	6	996.62	6	736.16	6	474.37	6	212.49	6		6	6	6		6	
1/4	1,514.79	1/4	1,252.96	1/4	991.20	1/4	730.71	1/4	468.91	1/4	207.03	1/4		1/4	1/4	1/4		1/4	
1/2	1,509.34	1/2	1,247.50	1/2	985.79	1/2	725.26	1/2	463.46	1/2	201.58	1/2		1/2	1/2	1/2		1/2	
3/4	1,503.89	3/4	1,242.05	3/4	980.37	3/4	719.80	3/4	458.00	3/4	196.12	3/4		3/4	3/4	3/4		3/4	
7	1,498.43	7	1,236.59	7	974.95	7	714.35	7	452.55	7	190.67	7		7	7	7		7	
1/4	1,492.98	1/4	1,231.14	1/4	969.53	1/4	708.90	1/4	447.09	1/4	185.21	1/4		1/4	1/4	1/4		1/4	
1/2	1,487.53	1/2	1,225.68	1/2	964.11	1/2	703.45	1/2	441.63	1/2	179.76	1/2		1/2	1/2	1/2		1/2	
3/4	1,482.08	3/4	1,220.22	3/4	958.69	3/4	698.00	3/4	436.18	3/4	174.30	3/4		3/4	3/4	3/4		3/4	
8	1,476.62	8	1,214.77	8	953.27	8	692.55	8	430.72	8	168.84	8		8	8	8		8	
1/4	1,471.17	1/4	1,209.31	1/4	947.85	1/4	687.10	1/4	425.27	1/4	163.39	1/4		1/4	1/4	1/4		1/4	
1/2	1,465.72	1/2	1,203.85	1/2	942.43	1/2	681.65	1/2	419.81	1/2	157.93	1/2		1/2	1/2	1/2		1/2	
3/4	1,460.26	3/4	1,198.40	3/4	937.01	3/4	676.20	3/4	414.35	3/4	152.48	3/4		3/4	3/4	3/4		3/4	
9	1,454.81	9	1,192.94	9	931.59	9	670.75	9	408.90	9	147.02	9		9	9	9		9	
1/4	1,449.36	1/4	1,187.49	1/4	926.17	1/4	665.30	1/4	403.44	1/4	141.57	1/4		1/4	1/4	1/4		1/4	
1/2	1,443.91	1/2	1,182.03	1/2	920.75	1/2	659.85	1/2	397.99	1/2	136.12	1/2		1/2	1/2	1/2		1/2	
3/4	1,438.45	3/4	1,176.57	3/4	915.33	3/4	654.40	3/4	392.53	3/4	130.67	3/4		3/4	3/4	3/4		3/4	
10	1,433.00	10	1,171.12	10	909.91	10	648.95	10	387.08	10	125.22	10		10	10	10		10	
1/4	1,427.55	1/4	1,165.66	1/4	904.49	1/4	643.50	1/4	381.62	1/4	119.77	1/4		1/4	1/4	1/4		1/4	
1/2	1,422.10	1/2	1,160.20	1/2	899.07	1/2	638.04	1/2	376.16	1/2	114.33	1/2		1/2	1/2	1/2		1/2	
3/4	1,416.64	3/4	1,154.75	3/4	893.65	3/4	632.58	3/4	370.71	3/4	108.89	3/4		3/4	3/4	3/4		3/4	
11	1,411.19	11	1,149.29	11	888.23	11	627.13	11	365.25	11	103.45	11		11	11	11		11	
1/4	1,405.74	1/4	1,143.83	1/4	882.81	1/4	621.67	1/4	359.80	1/4	98.01	1/4		1/4	1/4	1/4		1/4	
1/2	1,400.28	1/2	1,138.38	1/2	877.39	1/2	616.22	1/2	354.34	1/2	92.59	1/2		1/2	1/2	1/2		1/2	
3/4	1,394.82	3/4	1,132.92	3/4	871.97	3/4	610.76	3/4	348.88	3/4	87.17	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/09/2010 CL - SW
CALCULATED: 09/09/2010 CL
PRINTED: 09/09/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

PRECISION MEASUREMENT
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