



BARGE "KIRBY 10223"

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	00-1/8	- 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	00-1/2	- 00-1/2
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 27, 2010

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

<http://www.pmacorp.net>



BARGE "KIRBY 10223"

1 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	3,778.15	0	3,535.82	0	3,282.38	0	3,028.94	0	2,765.36	0	2,469.00	0	2,172.02		
1/4		1/4		1/4		1/4	3,776.08	1/4	3,530.54	1/4	3,277.10	1/4	3,023.66	1/4	2,759.20	1/4	2,462.81	1/4	2,165.83		
1/2		1/2		1/2		1/2	3,771.94	1/2	3,525.26	1/2	3,271.82	1/2	3,018.38	1/2	2,753.03	1/2	2,456.63	1/2	2,159.65		
3/4		3/4		3/4		3/4	3,767.80	3/4	3,519.98	3/4	3,266.54	3/4	3,013.10	3/4	2,746.86	3/4	2,450.44	3/4	2,153.46		
1		1		1		1	3,763.65	1	3,514.70	1	3,261.26	1	3,007.82	1	2,740.69	1	2,444.25	1	2,147.27		
1/4		1/4		1/4		1/4	3,759.51	1/4	3,509.42	1/4	3,255.98	1/4	3,002.54	1/4	2,734.52	1/4	2,438.06	1/4	2,141.08		
1/2		1/2		1/2		1/2	3,754.61	1/2	3,504.14	1/2	3,250.70	1/2	2,997.26	1/2	2,728.35	1/2	2,431.88	1/2	2,134.90		
3/4		3/4		3/4		3/4	3,749.71	3/4	3,498.86	3/4	3,245.42	3/4	2,991.98	3/4	2,722.19	3/4	2,425.69	3/4	2,128.71		
2		2		2		2	3,744.81	2	3,493.58	2	3,240.14	2	2,986.70	2	2,716.02	2	2,419.50	2	2,122.52		
1/4		1/4		1/4		1/4	3,739.90	1/4	3,488.30	1/4	3,234.86	1/4	2,981.42	1/4	2,709.85	1/4	2,413.32	1/4	2,116.34		
1/2		1/2		1/2		1/2	3,734.74	1/2	3,483.02	1/2	3,229.58	1/2	2,976.14	1/2	2,703.68	1/2	2,407.13	1/2	2,110.15		
3/4		3/4		3/4		3/4	3,729.57	3/4	3,477.74	3/4	3,224.30	3/4	2,970.86	3/4	2,697.51	3/4	2,400.94	3/4	2,103.96		
3		3		3		3	3,724.40	3	3,472.46	3	3,219.02	3	2,965.58	3	2,691.34	3	2,394.75	3	2,097.77		
1/4		1/4		1/4		1/4	3,719.23	1/4	3,467.18	1/4	3,213.74	1/4	2,960.30	1/4	2,685.17	1/4	2,388.57	1/4	2,091.59		
1/2		1/2		1/2		1/2	3,714.04	1/2	3,461.90	1/2	3,208.46	1/2	2,955.02	1/2	2,679.01	1/2	2,382.38	1/2	2,085.40		
3/4		3/4		3/4		3/4	3,708.85	3/4	3,456.62	3/4	3,203.18	3/4	2,949.74	3/4	2,672.84	3/4	2,376.19	3/4	2,079.21		
4		4		4		4	3,703.66	4	3,451.34	4	3,197.90	4	2,944.46	4	2,666.67	4	2,370.01	4	2,073.03		
1/4		1/4		1/4		1/4	3,698.46	1/4	3,446.06	1/4	3,192.62	1/4	2,939.18	1/4	2,660.50	1/4	2,363.82	1/4	2,066.84		
1/2		1/2		1/2		1/2	3,693.27	1/2	3,440.78	1/2	3,187.34	1/2	2,933.90	1/2	2,654.33	1/2	2,357.63	1/2	2,060.65		
3/4		3/4		3/4		3/4	3,688.07	3/4	3,435.50	3/4	3,182.06	3/4	2,928.62	3/4	2,648.16	3/4	2,351.45	3/4	2,054.46		
5		5		5		5	3,682.88	5	3,430.22	5	3,176.78	5	2,923.34	5	2,642.00	5	2,345.26	5	2,048.28		
1/4		1/4		1/4		1/4	3,677.68	1/4	3,424.94	1/4	3,171.50	1/4	2,918.06	1/4	2,635.83	1/4	2,339.07	1/4	2,042.09		
1/2		1/2		1/2		1/2	3,672.49	1/2	3,419.66	1/2	3,166.22	1/2	2,912.78	1/2	2,629.66	1/2	2,332.88	1/2	2,035.90		
3/4		3/4		3/4		3/4	3,667.30	3/4	3,414.38	3/4	3,160.94	3/4	2,907.50	3/4	2,623.49	3/4	2,326.70	3/4	2,029.72		
6		6		6		6	3,662.10	6	3,409.10	6	3,155.66	6	2,902.22	6	2,617.32	6	2,320.51	6	2,023.53		
1/4		1/4		1/4		1/4	3,656.91	1/4	3,403.82	1/4	3,150.38	1/4	2,896.94	1/4	2,611.15	1/4	2,314.32	1/4	2,017.34		
1/2		1/2		1/2		1/2	3,651.72	1/2	3,398.54	1/2	3,145.10	1/2	2,891.66	1/2	2,604.99	1/2	2,308.14	1/2	2,011.15		
3/4		3/4		3/4		3/4	3,646.53	3/4	3,393.26	3/4	3,139.82	3/4	2,886.38	3/4	2,598.82	3/4	2,301.95	3/4	2,004.97		
7		7		7		7	3,641.33	7	3,387.98	7	3,134.54	7	2,881.10	7	2,592.65	7	2,295.76	7	1,998.78		
1/4		1/4		1/4		1/4	3,636.14	1/4	3,382.70	1/4	3,129.26	1/4	2,875.82	1/4	2,586.48	1/4	2,289.57	1/4	1,992.59		
1/2		1/2		1/2		1/2	3,630.86	1/2	3,377.42	1/2	3,123.98	1/2	2,870.52	1/2	2,580.31	1/2	2,283.39	1/2	1,986.41		
3/4		3/4		3/4		3/4	3,625.58	3/4	3,372.14	3/4	3,118.70	3/4	2,865.21	3/4	2,574.14	3/4	2,277.20	3/4	1,980.22		
8		8		8		8	3,620.30	8	3,366.86	8	3,113.42	8	2,859.91	8	2,567.98	8	2,271.01	8	1,974.03		
1/4		1/4		1/4		1/4	3,615.02	1/4	3,361.58	1/4	3,108.14	1/4	2,854.60	1/4	2,561.81	1/4	2,264.83	1/4	1,967.85		
1/2		1/2		1/2		1/2	3,609.74	1/2	3,356.30	1/2	3,102.86	1/2	2,849.30	1/2	2,555.62	1/2	2,258.64	1/2	1,961.66		
3/4		3/4		3/4		3/4	3,604.46	3/4	3,351.02	3/4	3,097.58	3/4	2,843.99	3/4	2,549.43	3/4	2,252.45	3/4	1,955.47		
9		9		9		9	3,599.18	9	3,345.74	9	3,092.30	9	2,838.69	9	2,543.25	9	2,246.26	9	1,949.28		
1/4		1/4		1/4		1/4	3,593.90	1/4	3,340.46	1/4	3,087.02	1/4	2,833.38	1/4	2,537.06	1/4	2,240.08	1/4	1,943.10		
1/2		1/2		1/2		1/2	3,588.62	1/2	3,335.18	1/2	3,081.74	1/2	2,827.17	1/2	2,530.87	1/2	2,233.89	1/2	1,936.91		
3/4		3/4		3/4		3/4	3,583.34	3/4	3,329.90	3/4	3,076.46	3/4	2,820.96	3/4	2,524.68	3/4	2,227.70	3/4	1,930.72		
10		10		10		10	3,578.06	10	3,324.62	10	3,071.18	10	2,814.75	10	2,518.50	10	2,221.52	10	1,924.54		
1/4		1/4		1/4		1/4	3,572.78	1/4	3,319.34	1/4	3,065.90	1/4	2,808.54	1/4	2,512.31	1/4	2,215.33	1/4	1,918.35		
1/2		1/2		1/2		1/2	3,567.50	1/2	3,314.06	1/2	3,060.62	1/2	2,802.37	1/2	2,506.12	1/2	2,209.14	1/2	1,912.16		
3/4		3/4		3/4		3/4	3,785.40	3/4	3,562.22	3/4	3,308.78	3/4	3,055.34	3/4	2,796.21	3/4	2,499.94	3/4	2,202.95	3/4	1,905.97
11		11		11		11	3,784.88	11	3,556.94	11	3,303.50	11	3,050.06	11	2,790.04	11	2,493.75	11	2,196.77	11	1,899.79
1/4		1/4		1/4		1/4	3,784.36	1/4	3,551.66	1/4	3,298.22	1/4	3,044.78	1/4	2,783.87	1/4	2,487.56	1/4	2,190.58	1/4	1,893.60
1/2		1/2		1/2		1/2	3,782.29	1/2	3,546.38	1/2	3,292.94	1/2	3,039.50	1/2	2,777.70	1/2	2,481.37	1/2	2,184.39	1/2	1,887.41
3/4		3/4		3/4		3/4	3,780.22	3/4	3,541.10	3/4	3,287.66	3/4	3,034.22	3/4	2,771.53	3/4	2,475.19	3/4	2,178.21	3/4	1,881.23

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.
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BARGE "KIRBY 10223"

1 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.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,868.85	1/4	1,571.60	1/4	1,274.21	1/4	976.81	1/4	685.53	1/4	387.93	1/4	90.45	1/4		1/4		1/4		1/4	
1/2	1,862.66	1/2	1,565.40	1/2	1,268.01	1/2	970.68	1/2	679.33	1/2	381.73	1/2	84.31	1/2		1/2		1/2		1/2	
3/4	1,856.48	3/4	1,559.21	3/4	1,261.82	3/4	964.55	3/4	673.13	3/4	375.53	3/4	78.17	3/4		3/4		3/4		3/4	
1	1,850.29	1	1,553.01	1	1,255.62	1	958.42	1	666.93	1	369.33	1	72.03	1		1		1		1	
1/4	1,844.10	1/4	1,546.82	1/4	1,249.42	1/4	952.28	1/4	660.73	1/4	363.13	1/4	65.89	1/4		1/4		1/4		1/4	
1/2	1,837.92	1/2	1,540.62	1/2	1,243.23	1/2	946.21	1/2	654.53	1/2	356.93	1/2	59.81	1/2		1/2		1/2		1/2	
3/4	1,831.73	3/4	1,534.43	3/4	1,237.03	3/4	940.14	3/4	648.33	3/4	350.73	3/4	53.72	3/4		3/4		3/4		3/4	
2	1,825.54	2	1,528.23	2	1,230.84	2	934.07	2	642.13	2	344.53	2	47.64	2		2		2		2	
1/4	1,819.35	1/4	1,522.04	1/4	1,224.64	1/4	928.00	1/4	635.93	1/4	338.33	1/4	41.56	1/4		1/4		1/4		1/4	
1/2	1,813.16	1/2	1,515.84	1/2	1,218.45	1/2	921.94	1/2	629.73	1/2	332.13	1/2	36.39	1/2		1/2		1/2		1/2	
3/4	1,806.96	3/4	1,509.64	3/4	1,212.25	3/4	915.87	3/4	623.53	3/4	325.93	3/4	31.22	3/4		3/4		3/4		3/4	
3	1,800.77	3	1,503.45	3	1,206.05	3	909.80	3	617.33	3	319.73	3	26.05	3		3		3		3	
1/4	1,794.57	1/4	1,497.25	1/4	1,199.86	1/4	903.73	1/4	611.13	1/4	313.53	1/4	20.89	1/4		1/4		1/4		1/4	
1/2	1,788.38	1/2	1,491.06	1/2	1,193.66	1/2	897.68	1/2	604.93	1/2	307.33	1/2	17.78	1/2		1/2		1/2		1/2	
3/4	1,782.18	3/4	1,484.86	3/4	1,187.47	3/4	891.63	3/4	598.73	3/4	301.13	3/4	14.68	3/4		3/4		3/4		3/4	
4	1,775.99	4	1,478.67	4	1,181.27	4	885.57	4	592.53	4	294.93	4	11.57	4		4		4		4	
1/4	1,769.79	1/4	1,472.47	1/4	1,175.08	1/4	879.52	1/4	586.33	1/4	288.73	1/4	8.46	1/4		1/4		1/4		1/4	
1/2	1,763.60	1/2	1,466.27	1/2	1,168.88	1/2	873.48	1/2	580.13	1/2	282.53	1/2	7.43	1/2		1/2		1/2		1/2	
3/4	1,757.40	3/4	1,460.08	3/4	1,162.68	3/4	867.45	3/4	573.93	3/4	276.33	3/4	6.39	3/4		3/4		3/4		3/4	
5	1,751.20	5	1,453.88	5	1,156.49	5	861.41	5	567.73	5	270.13	5	5.36	5		5		5		5	
1/4	1,745.01	1/4	1,447.69	1/4	1,150.29	1/4	855.38	1/4	561.53	1/4	263.93	1/4	4.33	1/4		1/4		1/4		1/4	
1/2	1,738.81	1/2	1,441.49	1/2	1,144.10	1/2	849.34	1/2	555.33	1/2	257.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,732.62	3/4	1,435.30	3/4	1,137.90	3/4	843.30	3/4	549.13	3/4	251.53	3/4		3/4		3/4		3/4		3/4	
6	1,726.43	6	1,429.10	6	1,131.71	6	837.27	6	542.93	6	245.33	6		6		6		6		6	
1/4	1,720.23	1/4	1,422.90	1/4	1,125.51	1/4	831.23	1/4	536.73	1/4	239.13	1/4		1/4		1/4		1/4		1/4	
1/2	1,714.04	1/2	1,416.71	1/2	1,119.31	1/2	825.20	1/2	530.53	1/2	232.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,707.85	3/4	1,410.51	3/4	1,113.12	3/4	819.16	3/4	524.33	3/4	226.73	3/4		3/4		3/4		3/4		3/4	
7	1,701.65	7	1,404.32	7	1,106.92	7	813.12	7	518.13	7	220.53	7		7		7		7		7	
1/4	1,695.46	1/4	1,398.12	1/4	1,100.73	1/4	807.09	1/4	511.93	1/4	214.33	1/4		1/4		1/4		1/4		1/4	
1/2	1,689.27	1/2	1,391.93	1/2	1,094.53	1/2	801.05	1/2	505.73	1/2	208.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,683.08	3/4	1,385.73	3/4	1,088.34	3/4	795.01	3/4	499.53	3/4	201.93	3/4		3/4		3/4		3/4		3/4	
8	1,676.88	8	1,379.53	8	1,082.14	8	788.98	8	493.33	8	195.73	8		8		8		8		8	
1/4	1,670.69	1/4	1,373.34	1/4	1,075.94	1/4	782.94	1/4	487.13	1/4	189.53	1/4		1/4		1/4		1/4		1/4	
1/2	1,664.50	1/2	1,367.14	1/2	1,069.75	1/2	776.91	1/2	480.93	1/2	183.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,658.31	3/4	1,360.95	3/4	1,063.55	3/4	770.87	3/4	474.73	3/4	177.13	3/4		3/4		3/4		3/4		3/4	
9	1,652.12	9	1,354.75	9	1,057.36	9	764.83	9	468.53	9	170.93	9		9		9		9		9	
1/4	1,645.92	1/4	1,348.56	1/4	1,051.16	1/4	758.80	1/4	462.33	1/4	164.73	1/4		1/4		1/4		1/4		1/4	
1/2	1,639.73	1/2	1,342.36	1/2	1,044.97	1/2	752.76	1/2	456.13	1/2	158.53	1/2		1/2		1/2		1/2		1/2	
3/4	1,633.54	3/4	1,336.16	3/4	1,038.77	3/4	746.72	3/4	449.93	3/4	152.32	3/4		3/4		3/4		3/4		3/4	
10	1,627.35	10	1,329.97	10	1,032.57	10	740.69	10	443.73	10	146.12	10		10		10		10		10	
1/4	1,621.15	1/4	1,323.77	1/4	1,026.38	1/4	734.65	1/4	437.53	1/4	139.91	1/4		1/4		1/4		1/4		1/4	
1/2	1,614.96	1/2	1,317.58	1/2	1,020.18	1/2	728.55	1/2	431.33	1/2	133.72	1/2		1/2		1/2		1/2		1/2	
3/4	1,608.77	3/4	1,311.38	3/4	1,013.99	3/4	722.45	3/4	425.13	3/4	127.53	3/4		3/4		3/4		3/4		3/4	
11	1,602.58	11	1,305.19	11	1,007.79	11	716.35	11	418.93	11	121.33	11		11		11		11		11	
1/4	1,596.38	1/4	1,298.99	1/4	1,001.60	1/4	710.25	1/4	412.73	1/4	115.14	1/4		1/4		1/4		1/4		1/4	
1/2	1,590.19	1/2	1,292.79	1/2	995.40	1/2	704.07	1/2	406.53	1/2	108.97	1/2		1/2		1/2		1/2		1/2	
3/4	1,583.99	3/4	1,286.60	3/4	989.20	3/4	697.89	3/4	400.33	3/4	102.79	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2010 CL - SW
CALCULATED: 09/27/2010 CL
PRINTED: 09/27/2010 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 10223"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

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	3,480.58	0	3,229.20	0	2,967.15	0	2,705.10	0	2,442.47	0	2,179.03	0	1,915.58
1/4		1/4		1/4		1/4	3,476.92	1/4	3,223.74	1/4	2,961.69	1/4	2,699.64	1/4	2,436.98	1/4	2,173.54	1/4	1,910.09
1/2		1/2		1/2		1/2	3,473.26	1/2	3,218.28	1/2	2,956.23	1/2	2,694.18	1/2	2,431.49	1/2	2,168.05	1/2	1,904.61
3/4		3/4		3/4		3/4	3,469.60	3/4	3,212.83	3/4	2,950.77	3/4	2,688.72	3/4	2,426.00	3/4	2,162.56	3/4	1,899.12
1		1		1		1	3,465.93	1	3,207.37	1	2,945.31	1	2,683.26	1	2,420.52	1	2,157.07	1	1,893.63
1/4		1/4		1/4		1/4	3,460.83	1/4	3,201.91	1/4	2,939.85	1/4	2,677.80	1/4	2,415.03	1/4	2,151.58	1/4	1,888.14
1/2		1/2		1/2		1/2	3,455.72	1/2	3,196.45	1/2	2,934.40	1/2	2,672.34	1/2	2,409.54	1/2	2,146.10	1/2	1,882.65
3/4		3/4		3/4		3/4	3,450.62	3/4	3,190.99	3/4	2,928.94	3/4	2,666.88	3/4	2,404.05	3/4	2,140.61	3/4	1,877.16
2		2		2		2	3,445.51	2	3,185.53	2	2,923.48	2	2,661.43	2	2,398.56	2	2,135.12	2	1,871.68
1/4		1/4		1/4		1/4	3,440.17	1/4	3,180.07	1/4	2,918.02	1/4	2,655.97	1/4	2,393.07	1/4	2,129.63	1/4	1,866.19
1/2		1/2		1/2		1/2	3,434.84	1/2	3,174.61	1/2	2,912.56	1/2	2,650.51	1/2	2,387.59	1/2	2,124.14	1/2	1,860.70
3/4		3/4		3/4		3/4	3,429.50	3/4	3,169.15	3/4	2,907.10	3/4	2,645.05	3/4	2,382.10	3/4	2,118.65	3/4	1,855.21
3		3		3		3	3,424.16	3	3,163.69	3	2,901.64	3	2,639.59	3	2,376.61	3	2,113.17	3	1,849.72
1/4		1/4		1/4		1/4	3,418.80	1/4	3,158.23	1/4	2,896.18	1/4	2,634.13	1/4	2,371.12	1/4	2,107.68	1/4	1,844.23
1/2		1/2		1/2		1/2	3,413.44	1/2	3,152.77	1/2	2,890.72	1/2	2,628.67	1/2	2,365.63	1/2	2,102.19	1/2	1,838.75
3/4		3/4		3/4		3/4	3,408.08	3/4	3,147.31	3/4	2,885.26	3/4	2,623.21	3/4	2,360.14	3/4	2,096.70	3/4	1,833.26
4		4		4		4	3,402.73	4	3,141.85	4	2,879.80	4	2,617.75	4	2,354.66	4	2,091.21	4	1,827.77
1/4		1/4		1/4		1/4	3,397.36	1/4	3,136.39	1/4	2,874.34	1/4	2,612.29	1/4	2,349.17	1/4	2,085.72	1/4	1,822.28
1/2		1/2		1/2		1/2	3,392.00	1/2	3,130.93	1/2	2,868.88	1/2	2,606.83	1/2	2,343.68	1/2	2,080.24	1/2	1,816.79
3/4		3/4		3/4		3/4	3,386.64	3/4	3,125.47	3/4	2,863.42	3/4	2,601.37	3/4	2,338.19	3/4	2,074.75	3/4	1,811.30
5		5		5		5	3,381.27	5	3,120.02	5	2,857.96	5	2,595.91	5	2,332.70	5	2,069.26	5	1,805.82
1/4		1/4		1/4		1/4	3,375.91	1/4	3,114.56	1/4	2,852.50	1/4	2,590.45	1/4	2,327.21	1/4	2,063.77	1/4	1,800.33
1/2		1/2		1/2		1/2	3,370.55	1/2	3,109.10	1/2	2,847.05	1/2	2,584.99	1/2	2,321.72	1/2	2,058.28	1/2	1,794.84
3/4		3/4		3/4		3/4	3,365.19	3/4	3,103.64	3/4	2,841.59	3/4	2,579.53	3/4	2,316.24	3/4	2,052.79	3/4	1,789.35
6		6		6		6	3,359.83	6	3,098.18	6	2,836.13	6	2,574.08	6	2,310.75	6	2,047.30	6	1,783.86
1/4		1/4		1/4		1/4	3,354.47	1/4	3,092.72	1/4	2,830.67	1/4	2,568.62	1/4	2,305.26	1/4	2,041.82	1/4	1,778.37
1/2		1/2		1/2		1/2	3,349.11	1/2	3,087.26	1/2	2,825.21	1/2	2,563.16	1/2	2,299.77	1/2	2,036.33	1/2	1,772.88
3/4		3/4		3/4		3/4	3,343.75	3/4	3,081.80	3/4	2,819.75	3/4	2,557.70	3/4	2,294.28	3/4	2,030.84	3/4	1,767.40
7		7		7		7	3,338.39	7	3,076.34	7	2,814.29	7	2,552.24	7	2,288.79	7	2,025.35	7	1,761.91
1/4		1/4		1/4		1/4	3,332.93	1/4	3,070.88	1/4	2,808.83	1/4	2,546.75	1/4	2,283.31	1/4	2,019.86	1/4	1,756.42
1/2		1/2		1/2		1/2	3,327.47	1/2	3,065.42	1/2	2,803.37	1/2	2,541.26	1/2	2,277.82	1/2	2,014.37	1/2	1,750.93
3/4		3/4		3/4		3/4	3,322.01	3/4	3,059.96	3/4	2,797.91	3/4	2,535.77	3/4	2,272.33	3/4	2,008.89	3/4	1,745.44
8		8		8		8	3,316.55	8	3,054.50	8	2,792.45	8	2,530.28	8	2,266.84	8	2,003.40	8	1,739.95
1/4		1/4		1/4		1/4	3,311.09	1/4	3,049.04	1/4	2,786.99	1/4	2,524.80	1/4	2,261.35	1/4	1,997.91	1/4	1,734.47
1/2		1/2		1/2		1/2	3,305.63	1/2	3,043.58	1/2	2,781.53	1/2	2,519.31	1/2	2,255.86	1/2	1,992.42	1/2	1,728.98
3/4		3/4		3/4		3/4	3,300.18	3/4	3,038.12	3/4	2,776.07	3/4	2,513.82	3/4	2,250.38	3/4	1,986.93	3/4	1,723.49
9		9		9		9	3,294.72	9	3,032.66	9	2,770.61	9	2,508.33	9	2,244.89	9	1,981.44	9	1,718.00
1/4		1/4		1/4		1/4	3,289.26	1/4	3,027.21	1/4	2,765.15	1/4	2,502.84	1/4	2,239.40	1/4	1,975.96	1/4	1,712.51
1/2		1/2		1/2		1/2	3,283.80	1/2	3,021.75	1/2	2,759.69	1/2	2,497.35	1/2	2,233.91	1/2	1,970.47	1/2	1,707.02
3/4		3/4		3/4		3/4	3,278.34	3/4	3,016.29	3/4	2,754.24	3/4	2,491.87	3/4	2,228.42	3/4	1,964.98	3/4	1,701.54
10		10		10		10	3,272.88	10	3,010.83	10	2,748.78	10	2,486.38	10	2,222.93	10	1,959.49	10	1,696.05
1/4		1/4		1/4		1/4	3,267.42	1/4	3,005.37	1/4	2,743.32	1/4	2,480.89	1/4	2,217.45	1/4	1,954.00	1/4	1,690.56
1/2		1/2		1/2	3,488.82	1/2	3,261.96	1/2	2,999.91	1/2	2,737.86	1/2	2,475.40	1/2	2,211.96	1/2	1,948.51	1/2	1,685.07
3/4		3/4		3/4	3,488.36	3/4	3,256.50	3/4	2,994.45	3/4	2,732.40	3/4	2,469.91	3/4	2,206.47	3/4	1,943.03	3/4	1,679.58
11		11		11	3,487.90	11	3,251.04	11	2,988.99	11	2,726.94	11	2,464.42	11	2,200.98	11	1,937.54	11	1,674.09
1/4		1/4		1/4	3,486.07	1/4	3,245.58	1/4	2,983.53	1/4	2,721.48	1/4	2,458.93	1/4	2,195.49	1/4	1,932.05	1/4	1,668.61
1/2		1/2		1/2	3,484.24	1/2	3,240.12	1/2	2,978.07	1/2	2,716.02	1/2	2,453.45	1/2	2,190.00	1/2	1,926.56	1/2	1,663.12
3/4		3/4		3/4	3,482.41	3/4	3,234.66	3/4	2,972.61	3/4	2,710.56	3/4	2,447.96	3/4	2,184.51	3/4	1,921.07	3/4	1,657.63

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.

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 10223"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.	
0	1,652.14	0	1,388.68	0	1,125.06	0	863.65	0	603.78	0	340.19	0	76.82	0		0		0	
1/4	1,646.65	1/4	1,383.19	1/4	1,119.57	1/4	858.24	1/4	598.29	1/4	334.69	1/4	71.39	1/4	1/4	1/4		1/4	
1/2	1,641.16	1/2	1,377.70	1/2	1,114.08	1/2	852.84	1/2	592.80	1/2	329.20	1/2	65.96	1/2	1/2	1/2		1/2	
3/4	1,635.67	3/4	1,372.21	3/4	1,108.58	3/4	847.43	3/4	587.31	3/4	323.71	3/4	60.53	3/4	3/4	3/4		3/4	
1	1,630.19	1	1,366.71	1	1,103.09	1	842.02	1	581.82	1	318.22	1	55.11	1	1	1		1	
1/4	1,624.70	1/4	1,361.22	1/4	1,097.60	1/4	836.61	1/4	576.32	1/4	312.73	1/4	49.73	1/4	1/4	1/4		1/4	
1/2	1,619.21	1/2	1,355.73	1/2	1,092.11	1/2	831.21	1/2	570.83	1/2	307.24	1/2	44.35	1/2	1/2	1/2		1/2	
3/4	1,613.72	3/4	1,350.24	3/4	1,086.62	3/4	825.80	3/4	565.34	3/4	301.74	3/4	38.97	3/4	3/4	3/4		3/4	
2	1,608.23	2	1,344.75	2	1,081.12	2	820.39	2	559.85	2	296.25	2	33.59	2	2	2		2	
1/4	1,602.74	1/4	1,339.25	1/4	1,075.63	1/4	814.99	1/4	554.36	1/4	290.76	1/4	29.03	1/4	1/4	1/4		1/4	
1/2	1,597.26	1/2	1,333.76	1/2	1,070.14	1/2	809.59	1/2	548.87	1/2	285.27	1/2	24.46	1/2	1/2	1/2		1/2	
3/4	1,591.77	3/4	1,328.27	3/4	1,064.65	3/4	804.19	3/4	543.37	3/4	279.78	3/4	19.89	3/4	3/4	3/4		3/4	
3	1,586.28	3	1,322.78	3	1,059.16	3	798.78	3	537.88	3	274.29	3	15.32	3	3	3		3	
1/4	1,580.79	1/4	1,317.28	1/4	1,053.66	1/4	793.38	1/4	532.39	1/4	268.79	1/4	12.58	1/4	1/4	1/4		1/4	
1/2	1,575.30	1/2	1,311.79	1/2	1,048.17	1/2	787.98	1/2	526.90	1/2	263.30	1/2	9.83	1/2	1/2	1/2		1/2	
3/4	1,569.81	3/4	1,306.30	3/4	1,042.68	3/4	782.58	3/4	521.41	3/4	257.81	3/4	7.08	3/4	3/4	3/4		3/4	
4	1,564.33	4	1,300.81	4	1,037.19	4	777.18	4	515.92	4	252.32	4	4.34	4	4	4		4	
1/4	1,558.84	1/4	1,295.32	1/4	1,031.70	1/4	771.78	1/4	510.42	1/4	246.83	1/4	3.42	1/4	1/4	1/4		1/4	
1/2	1,553.35	1/2	1,289.82	1/2	1,026.20	1/2	766.37	1/2	504.93	1/2	241.34	1/2	2.51	1/2	1/2	1/2		1/2	
3/4	1,547.86	3/4	1,284.33	3/4	1,020.71	3/4	760.97	3/4	499.44	3/4	235.84	3/4	1.59	3/4	3/4	3/4		3/4	
5	1,542.37	5	1,278.84	5	1,015.22	5	755.57	5	493.95	5	230.35	5	0.68	5	5	5		5	
1/4	1,536.88	1/4	1,273.35	1/4	1,009.77	1/4	750.17	1/4	488.46	1/4	224.86	1/4		1/4	1/4	1/4		1/4	
1/2	1,531.40	1/2	1,267.86	1/2	1,004.32	1/2	744.77	1/2	482.97	1/2	219.37	1/2		1/2	1/2	1/2		1/2	
3/4	1,525.91	3/4	1,262.36	3/4	998.87	3/4	739.36	3/4	477.48	3/4	213.88	3/4		3/4	3/4	3/4		3/4	
6	1,520.42	6	1,256.87	6	993.42	6	733.96	6	471.98	6	208.39	6		6	6	6		6	
1/4	1,514.93	1/4	1,251.38	1/4	988.02	1/4	728.56	1/4	466.49	1/4	202.90	1/4		1/4	1/4	1/4		1/4	
1/2	1,509.44	1/2	1,245.89	1/2	982.61	1/2	723.16	1/2	461.00	1/2	197.40	1/2		1/2	1/2	1/2		1/2	
3/4	1,503.95	3/4	1,240.40	3/4	977.20	3/4	717.76	3/4	455.51	3/4	191.91	3/4		3/4	3/4	3/4		3/4	
7	1,498.46	7	1,234.90	7	971.79	7	712.36	7	450.02	7	186.42	7		7	7	7		7	
1/4	1,492.98	1/4	1,229.41	1/4	966.39	1/4	706.95	1/4	444.53	1/4	180.93	1/4		1/4	1/4	1/4		1/4	
1/2	1,487.49	1/2	1,223.92	1/2	960.98	1/2	701.55	1/2	439.03	1/2	175.44	1/2		1/2	1/2	1/2		1/2	
3/4	1,482.00	3/4	1,218.43	3/4	955.57	3/4	696.15	3/4	433.54	3/4	169.95	3/4		3/4	3/4	3/4		3/4	
8	1,476.51	8	1,212.93	8	950.16	8	690.75	8	428.05	8	164.45	8		8	8	8		8	
1/4	1,471.02	1/4	1,207.44	1/4	944.76	1/4	685.35	1/4	422.56	1/4	158.96	1/4		1/4	1/4	1/4		1/4	
1/2	1,465.53	1/2	1,201.95	1/2	939.35	1/2	679.95	1/2	417.07	1/2	153.47	1/2		1/2	1/2	1/2		1/2	
3/4	1,460.05	3/4	1,196.46	3/4	933.94	3/4	674.54	3/4	411.58	3/4	147.98	3/4		3/4	3/4	3/4		3/4	
9	1,454.56	9	1,190.97	9	928.54	9	669.14	9	406.08	9	142.49	9		9	9	9		9	
1/4	1,449.07	1/4	1,185.47	1/4	923.13	1/4	663.74	1/4	400.59	1/4	137.00	1/4		1/4	1/4	1/4		1/4	
1/2	1,443.58	1/2	1,179.98	1/2	917.72	1/2	658.34	1/2	395.10	1/2	131.52	1/2		1/2	1/2	1/2		1/2	
3/4	1,438.09	3/4	1,174.49	3/4	912.31	3/4	652.94	3/4	389.61	3/4	126.03	3/4		3/4	3/4	3/4		3/4	
10	1,432.60	10	1,169.00	10	906.91	10	647.54	10	384.12	10	120.55	10		10	10	10		10	
1/4	1,427.12	1/4	1,163.51	1/4	901.50	1/4	642.09	1/4	378.63	1/4	115.07	1/4		1/4	1/4	1/4		1/4	
1/2	1,421.63	1/2	1,158.01	1/2	896.09	1/2	636.64	1/2	373.13	1/2	109.60	1/2		1/2	1/2	1/2		1/2	
3/4	1,416.14	3/4	1,152.52	3/4	890.69	3/4	631.19	3/4	367.64	3/4	104.12	3/4		3/4	3/4	3/4		3/4	
11	1,410.65	11	1,147.03	11	885.28	11	625.75	11	362.15	11	98.65	11		11	11	11		11	
1/4	1,405.16	1/4	1,141.54	1/4	879.87	1/4	620.25	1/4	356.66	1/4	93.19	1/4		1/4	1/4	1/4		1/4	
1/2	1,399.67	1/2	1,136.05	1/2	874.46	1/2	614.76	1/2	351.17	1/2	87.73	1/2		1/2	1/2	1/2		1/2	
3/4	1,394.17	3/4	1,130.55	3/4	869.06	3/4	609.27	3/4	345.68	3/4	82.28	3/4		3/4	3/4	3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2010 CL - SW
CALCULATED: 09/27/2010 CL
PRINTED: 09/27/2010 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 10223"

3 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	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT		
0		0		0		0	3,466.02	0	3,230.97	0	2,970.89	0	2,710.82	0	2,450.27	0	2,188.80	0	1,927.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,464.20	1/4	3,225.55	1/4	2,965.48	1/4	2,705.40	1/4	2,444.82	1/4	2,183.35	1/4	1,921.87		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,462.38	1/2	3,220.14	1/2	2,960.06	1/2	2,699.98	1/2	2,439.38	1/2	2,177.90	1/2	1,916.43		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,460.57	3/4	3,214.72	3/4	2,954.64	3/4	2,694.56	3/4	2,433.93	3/4	2,172.45	3/4	1,910.98		
1		1		1		1	3,458.75	1	3,209.30	1	2,949.22	1	2,689.14	1	2,428.48	1	2,167.01	1	1,905.53		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,455.12	1/4	3,203.88	1/4	2,943.80	1/4	2,683.72	1/4	2,423.03	1/4	2,161.56	1/4	1,900.08		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,451.48	1/2	3,198.46	1/2	2,938.38	1/2	2,678.31	1/2	2,417.59	1/2	2,156.11	1/2	1,894.64		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,447.85	3/4	3,193.04	3/4	2,932.97	3/4	2,672.89	3/4	2,412.14	3/4	2,150.66	3/4	1,889.19		
2		2		2		2	3,444.21	2	3,187.63	2	2,927.55	2	2,667.47	2	2,406.69	2	2,145.22	2	1,883.74		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,439.15	1/4	3,182.21	1/4	2,922.13	1/4	2,662.05	1/4	2,401.24	1/4	2,139.77	1/4	1,878.29		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,434.08	1/2	3,176.79	1/2	2,916.71	1/2	2,656.63	1/2	2,395.80	1/2	2,134.32	1/2	1,872.85		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,429.02	3/4	3,171.37	3/4	2,911.29	3/4	2,651.21	3/4	2,390.35	3/4	2,128.87	3/4	1,867.40		
3		3		3		3	3,423.95	3	3,165.95	3	2,905.87	3	2,645.80	3	2,384.90	3	2,123.43	3	1,861.95		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,418.65	1/4	3,160.53	1/4	2,900.46	1/4	2,640.38	1/4	2,379.46	1/4	2,117.98	1/4	1,856.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,413.36	1/2	3,155.12	1/2	2,895.04	1/2	2,634.96	1/2	2,374.01	1/2	2,112.53	1/2	1,851.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,408.06	3/4	3,149.70	3/4	2,889.62	3/4	2,629.54	3/4	2,368.56	3/4	2,107.09	3/4	1,845.61		
4		4		4		4	3,402.76	4	3,144.28	4	2,884.20	4	2,624.12	4	2,363.11	4	2,101.64	4	1,840.16		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,397.44	1/4	3,138.86	1/4	2,878.78	1/4	2,618.70	1/4	2,357.67	1/4	2,096.19	1/4	1,834.72		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,392.13	1/2	3,133.44	1/2	2,873.36	1/2	2,613.29	1/2	2,352.22	1/2	2,090.74	1/2	1,829.27		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,386.82	3/4	3,128.02	3/4	2,867.95	3/4	2,607.87	3/4	2,346.77	3/4	2,085.30	3/4	1,823.82		
5		5		5		5	3,381.50	5	3,122.61	5	2,862.53	5	2,602.45	5	2,341.32	5	2,079.85	5	1,818.37		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,376.18	1/4	3,117.19	1/4	2,857.11	1/4	2,597.03	1/4	2,335.88	1/4	2,074.40	1/4	1,812.93		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,370.86	1/2	3,111.77	1/2	2,851.69	1/2	2,591.61	1/2	2,330.43	1/2	2,068.95	1/2	1,807.48		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,365.53	3/4	3,106.35	3/4	2,846.27	3/4	2,586.19	3/4	2,324.98	3/4	2,063.51	3/4	1,802.03		
6		6		6		6	3,360.21	6	3,100.93	6	2,840.85	6	2,580.78	6	2,319.53	6	2,058.06	6	1,796.58		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,354.89	1/4	3,095.51	1/4	2,835.44	1/4	2,575.36	1/4	2,314.09	1/4	2,052.61	1/4	1,791.14		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,349.57	1/2	3,090.10	1/2	2,830.02	1/2	2,569.94	1/2	2,308.64	1/2	2,047.16	1/2	1,785.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,344.26	3/4	3,084.68	3/4	2,824.60	3/4	2,564.52	3/4	2,303.19	3/4	2,041.72	3/4	1,780.24		
7		7		7		7	3,338.94	7	3,079.26	7	2,819.18	7	2,559.10	7	2,297.74	7	2,036.27	7	1,774.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,333.62	1/4	3,073.84	1/4	2,813.76	1/4	2,553.68	1/4	2,292.30	1/4	2,030.82	1/4	1,769.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,328.30	1/2	3,068.42	1/2	2,808.34	1/2	2,548.27	1/2	2,286.85	1/2	2,025.37	1/2	1,763.90		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,322.98	3/4	3,063.00	3/4	2,802.93	3/4	2,542.85	3/4	2,281.40	3/4	2,019.93	3/4	1,758.45		
8		8		8		8	3,317.67	8	3,057.59	8	2,797.51	8	2,537.43	8	2,275.95	8	2,014.48	8	1,753.00		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,312.25	1/4	3,052.17	1/4	2,792.09	1/4	2,531.98	1/4	2,270.51	1/4	2,009.03	1/4	1,747.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,306.83	1/2	3,046.75	1/2	2,786.67	1/2	2,526.54	1/2	2,265.06	1/2	2,003.58	1/2	1,742.11		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,301.41	3/4	3,041.33	3/4	2,781.25	3/4	2,521.09	3/4	2,259.61	3/4	1,998.14	3/4	1,736.66		
9		9		9		9	3,295.99	9	3,035.91	9	2,775.84	9	2,515.64	9	2,254.17	9	1,992.69	9	1,731.21		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,290.57	1/4	3,030.50	1/4	2,770.42	1/4	2,510.19	1/4	2,248.72	1/4	1,987.24	1/4	1,725.77		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,285.16	1/2	3,025.08	1/2	2,765.00	1/2	2,504.75	1/2	2,243.27	1/2	1,981.80	1/2	1,720.32		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,279.74	3/4	3,019.66	3/4	2,759.58	3/4	2,499.30	3/4	2,237.82	3/4	1,976.35	3/4	1,714.87		
10		10		10		10	3,274.32	10	3,014.24	10	2,754.16	10	2,493.85	10	2,232.38	10	1,970.90	10	1,709.43		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,268.90	1/4	3,008.82	1/4	2,748.74	1/4	2,488.40	1/4	2,226.93	1/4	1,965.45	1/4	1,703.98		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,263.48	1/2	3,003.40	1/2	2,743.33	1/2	2,482.96	1/2	2,221.48	1/2	1,960.01	1/2	1,698.53		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,258.06	3/4	2,997.99	3/4	2,737.91	3/4	2,477.51	3/4	2,216.03	3/4	1,954.56	3/4	1,693.08		
11		11		11		11	3,252.65	11	2,992.57	11	2,732.49	11	2,472.06	11	2,210.59	11	1,949.11	11	1,687.64		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,247.23	1/4	2,987.15	1/4	2,727.07	1/4	2,466.61	1/4	2,205.14	1/4	1,943.66	1/4	1,682.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,466.93	1/2	3,241.81	1/2	2,981.73	1/2	2,721.65	1/2	2,461.17	1/2	2,199.69	1/2	1,938.22	1/2	1,676.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,466.47	3/4	3,236.39	3/4	2,976.31	3/4	2,716.23	3/4	2,455.72	3/4	2,194.24	3/4	1,932.77	3/4	1,671.29

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.

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 10223"

3 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.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
	1,665.85		1,404.37		1,142.72		881.95		621.07		359.45		97.91								
1/4	1,660.40	1/4	1,398.92	1/4	1,137.27	1/4	876.54	1/4	615.62	1/4	354.00	1/4	92.50	1/4		1/4		1/4		1/4	
1/2	1,654.95	1/2	1,393.47	1/2	1,131.82	1/2	871.12	1/2	610.17	1/2	348.55	1/2	87.08	1/2		1/2		1/2		1/2	
3/4	1,649.50	3/4	1,388.02	3/4	1,126.37	3/4	865.71	3/4	604.72	3/4	343.10	3/4	81.67	3/4		3/4		3/4		3/4	
1	1,644.06	1	1,382.57	1	1,120.92	1	860.30	1	599.27	1	337.65	1	76.25	1		1		1		1	
1/4	1,638.61	1/4	1,377.12	1/4	1,115.47	1/4	854.88	1/4	593.82	1/4	332.19	1/4	70.86	1/4		1/4		1/4		1/4	
1/2	1,633.16	1/2	1,371.66	1/2	1,110.02	1/2	849.47	1/2	588.37	1/2	326.74	1/2	65.47	1/2		1/2		1/2		1/2	
3/4	1,627.71	3/4	1,366.21	3/4	1,104.57	3/4	844.05	3/4	582.92	3/4	321.29	3/4	60.09	3/4		3/4		3/4		3/4	
2	1,622.27	2	1,360.76	2	1,099.11	2	838.64	2	577.47	2	315.84	2	54.70	2		2		2		2	
1/4	1,616.82	1/4	1,355.31	1/4	1,093.66	1/4	833.22	1/4	572.02	1/4	310.39	1/4	49.36	1/4		1/4		1/4		1/4	
1/2	1,611.37	1/2	1,349.86	1/2	1,088.21	1/2	827.81	1/2	566.57	1/2	304.94	1/2	44.02	1/2		1/2		1/2		1/2	
3/4	1,605.92	3/4	1,344.41	3/4	1,082.76	3/4	822.39	3/4	561.12	3/4	299.49	3/4	38.69	3/4		3/4		3/4		3/4	
3	1,600.48	3	1,338.96	3	1,077.31	3	816.98	3	555.67	3	294.04	3	33.35	3		3		3		3	
1/4	1,595.03	1/4	1,333.51	1/4	1,071.86	1/4	811.57	1/4	550.21	1/4	288.59	1/4	28.81	1/4		1/4		1/4		1/4	
1/2	1,589.58	1/2	1,328.06	1/2	1,066.41	1/2	806.16	1/2	544.76	1/2	283.14	1/2	24.28	1/2		1/2		1/2		1/2	
3/4	1,584.13	3/4	1,322.61	3/4	1,060.96	3/4	800.75	3/4	539.31	3/4	277.69	3/4	19.75	3/4		3/4		3/4		3/4	
4	1,578.69	4	1,317.15	4	1,055.51	4	795.34	4	533.86	4	272.24	4	15.21	4		4		4		4	
1/4	1,573.24	1/4	1,311.70	1/4	1,050.06	1/4	789.90	1/4	528.41	1/4	266.79	1/4	12.49	1/4		1/4		1/4		1/4	
1/2	1,567.79	1/2	1,306.25	1/2	1,044.60	1/2	784.45	1/2	522.96	1/2	261.34	1/2	9.76	1/2		1/2		1/2		1/2	
3/4	1,562.35	3/4	1,300.80	3/4	1,039.15	3/4	779.01	3/4	517.51	3/4	255.89	3/4	7.04	3/4		3/4		3/4		3/4	
5	1,556.90	5	1,295.35	5	1,033.70	5	773.56	5	512.06	5	250.44	5	4.31	5		5		5		5	
1/4	1,551.45	1/4	1,289.90	1/4	1,028.25	1/4	768.12	1/4	506.61	1/4	244.99	1/4	3.40	1/4		1/4		1/4		1/4	
1/2	1,546.00	1/2	1,284.45	1/2	1,022.80	1/2	762.67	1/2	501.16	1/2	239.54	1/2	2.50	1/2		1/2		1/2		1/2	
3/4	1,540.56	3/4	1,279.00	3/4	1,017.35	3/4	757.23	3/4	495.71	3/4	234.09	3/4	1.59	3/4		3/4		3/4		3/4	
6	1,535.11	6	1,273.55	6	1,011.90	6	751.78	6	490.26	6	228.64	6	0.68	6		6		6		6	
1/4	1,529.66	1/4	1,268.10	1/4	1,006.48	1/4	746.33	1/4	484.81	1/4	223.18	1/4		1/4		1/4		1/4		1/4	
1/2	1,524.21	1/2	1,262.64	1/2	1,001.07	1/2	740.89	1/2	479.36	1/2	217.73	1/2		1/2		1/2		1/2		1/2	
3/4	1,518.77	3/4	1,257.19	3/4	995.66	3/4	735.44	3/4	473.91	3/4	212.28	3/4		3/4		3/4		3/4		3/4	
7	1,513.32	7	1,251.74	7	990.24	7	730.00	7	468.46	7	206.83	7		7		7		7		7	
1/4	1,507.87	1/4	1,246.29	1/4	984.83	1/4	724.55	1/4	463.01	1/4	201.38	1/4		1/4		1/4		1/4		1/4	
1/2	1,502.42	1/2	1,240.84	1/2	979.41	1/2	719.11	1/2	457.56	1/2	195.93	1/2		1/2		1/2		1/2		1/2	
3/4	1,496.98	3/4	1,235.39	3/4	974.00	3/4	713.66	3/4	452.11	3/4	190.48	3/4		3/4		3/4		3/4		3/4	
8	1,491.53	8	1,229.94	8	968.58	8	708.21	8	446.66	8	185.03	8		8		8		8		8	
1/4	1,486.08	1/4	1,224.49	1/4	963.17	1/4	702.77	1/4	441.20	1/4	179.58	1/4		1/4		1/4		1/4		1/4	
1/2	1,480.63	1/2	1,219.04	1/2	957.75	1/2	697.32	1/2	435.75	1/2	174.13	1/2		1/2		1/2		1/2		1/2	
3/4	1,475.19	3/4	1,213.59	3/4	952.34	3/4	691.88	3/4	430.30	3/4	168.68	3/4		3/4		3/4		3/4		3/4	
9	1,469.74	9	1,208.13	9	946.93	9	686.43	9	424.85	9	163.23	9		9		9		9		9	
1/4	1,464.29	1/4	1,202.68	1/4	941.51	1/4	680.99	1/4	419.40	1/4	157.78	1/4		1/4		1/4		1/4		1/4	
1/2	1,458.84	1/2	1,197.23	1/2	936.10	1/2	675.54	1/2	413.95	1/2	152.33	1/2		1/2		1/2		1/2		1/2	
3/4	1,453.40	3/4	1,191.78	3/4	930.68	3/4	670.10	3/4	408.50	3/4	146.88	3/4		3/4		3/4		3/4		3/4	
10	1,447.95	10	1,186.33	10	925.27	10	664.65	10	403.05	10	141.43	10		10		10		10		10	
1/4	1,442.50	1/4	1,180.88	1/4	919.85	1/4	659.21	1/4	397.60	1/4	135.98	1/4		1/4		1/4		1/4		1/4	
1/2	1,437.06	1/2	1,175.43	1/2	914.44	1/2	653.76	1/2	392.15	1/2	130.54	1/2		1/2		1/2		1/2		1/2	
3/4	1,431.61	3/4	1,169.98	3/4	909.03	3/4	648.32	3/4	386.70	3/4	125.09	3/4		3/4		3/4		3/4		3/4	
11	1,426.16	11	1,164.53	11	903.61	11	642.87	11	381.25	11	119.65	11		11		11		11		11	
1/4	1,420.71	1/4	1,159.08	1/4	898.20	1/4	637.42	1/4	375.80	1/4	114.22	1/4		1/4		1/4		1/4		1/4	
1/2	1,415.27	1/2	1,153.62	1/2	892.78	1/2	631.97	1/2	370.35	1/2	108.78	1/2		1/2		1/2		1/2		1/2	
3/4	1,409.82	3/4	1,148.17	3/4	887.37	3/4	626.52	3/4	364.90	3/4	103.35	3/4		3/4		3/4		3/4		3/4	

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

STRAPPED: 09/27/2010 CL - SW
CALCULATED: 09/27/2010 CL
PRINTED: 09/27/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 09/2010

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