



BARGE "KIRBY 11023B"

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

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

LENGTH BETWEEN DRAFT MARKS: 183'-00"

June 28, 2010

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

<http://www.pmacorp.net>



BARGE "KIRBY 11023B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 3/4"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0		0		0		0	4,104.93	0	3,813.57	0	3,505.88	0	3,198.20	0	2,890.02	0	2,580.93	0	2,271.84		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,101.70	1/4	3,807.16	1/4	3,499.47	1/4	3,191.79	1/4	2,883.58	1/4	2,574.49	1/4	2,265.40		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,098.48	1/2	3,800.75	1/2	3,493.06	1/2	3,185.38	1/2	2,877.14	1/2	2,568.05	1/2	2,258.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,095.26	3/4	3,794.34	3/4	3,486.65	3/4	3,178.97	3/4	2,870.70	3/4	2,561.61	3/4	2,252.53		
1	1	1	1	1	1	1	4,089.89	1	3,787.93	1	3,480.24	1	3,172.56	1	2,864.26	1	2,555.17	1	2,246.09		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,084.53	1/4	3,781.52	1/4	3,473.83	1/4	3,166.15	1/4	2,857.82	1/4	2,548.73	1/4	2,239.65		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,079.16	1/2	3,775.11	1/2	3,467.42	1/2	3,159.74	1/2	2,851.38	1/2	2,542.29	1/2	2,233.21		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,073.79	3/4	3,768.70	3/4	3,461.01	3/4	3,153.33	3/4	2,844.94	3/4	2,535.85	3/4	2,226.77		
2	2	2	2	2	2	2	4,067.53	2	3,762.29	2	3,454.60	2	3,146.92	2	2,838.50	2	2,529.42	2	2,220.33		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,061.27	1/4	3,755.88	1/4	3,448.19	1/4	3,140.51	1/4	2,832.06	1/4	2,522.98	1/4	2,213.89		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,055.01	1/2	3,749.47	1/2	3,441.78	1/2	3,134.10	1/2	2,825.62	1/2	2,516.54	1/2	2,207.45		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,048.74	3/4	3,743.06	3/4	3,435.37	3/4	3,127.69	3/4	2,819.18	3/4	2,510.10	3/4	2,201.01		
3	3	3	3	3	3	3	4,042.44	3	3,736.65	3	3,428.96	3	3,121.28	3	2,812.74	3	2,503.66	3	2,194.57		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,036.14	1/4	3,730.24	1/4	3,422.55	1/4	3,114.87	1/4	2,806.31	1/4	2,497.22	1/4	2,188.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,029.84	1/2	3,723.83	1/2	3,416.14	1/2	3,108.46	1/2	2,799.87	1/2	2,490.78	1/2	2,181.69		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,023.54	3/4	3,717.42	3/4	3,409.73	3/4	3,102.05	3/4	2,793.43	3/4	2,484.34	3/4	2,175.25		
4	4	4	4	4	4	4	4,017.23	4	3,711.01	4	3,403.32	4	3,095.64	4	2,786.99	4	2,477.90	4	2,168.81		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,010.92	1/4	3,704.60	1/4	3,396.91	1/4	3,089.23	1/4	2,780.55	1/4	2,471.46	1/4	2,162.38		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,004.60	1/2	3,698.19	1/2	3,390.50	1/2	3,082.82	1/2	2,774.11	1/2	2,465.02	1/2	2,155.94		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,998.29	3/4	3,691.77	3/4	3,384.09	3/4	3,076.41	3/4	2,767.67	3/4	2,458.58	3/4	2,149.50		
5	5	5	5	5	5	5	3,991.97	5	3,685.36	5	3,377.68	5	3,070.00	5	2,761.23	5	2,452.14	5	2,143.06		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,985.66	1/4	3,678.95	1/4	3,371.27	1/4	3,063.59	1/4	2,754.79	1/4	2,445.70	1/4	2,136.62		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,979.35	1/2	3,672.54	1/2	3,364.86	1/2	3,057.17	1/2	2,748.35	1/2	2,439.26	1/2	2,130.18		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,973.03	3/4	3,666.13	3/4	3,358.45	3/4	3,050.76	3/4	2,741.91	3/4	2,432.83	3/4	2,123.74		
6	6	6	6	6	6	6	3,966.72	6	3,659.72	6	3,352.04	6	3,044.35	6	2,735.47	6	2,426.39	6	2,117.30		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,960.41	1/4	3,653.31	1/4	3,345.63	1/4	3,037.94	1/4	2,729.03	1/4	2,419.95	1/4	2,110.86		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,954.10	1/2	3,646.90	1/2	3,339.22	1/2	3,031.53	1/2	2,722.59	1/2	2,413.51	1/2	2,104.42		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,947.78	3/4	3,640.49	3/4	3,332.81	3/4	3,025.12	3/4	2,716.15	3/4	2,407.07	3/4	2,097.98		
7	7	7	7	7	7	7	3,941.47	7	3,634.08	7	3,326.40	7	3,018.71	7	2,709.72	7	2,400.63	7	2,091.54		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,935.16	1/4	3,627.67	1/4	3,319.99	1/4	3,012.30	1/4	2,703.28	1/4	2,394.19	1/4	2,085.10		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,928.85	1/2	3,621.26	1/2	3,313.58	1/2	3,005.89	1/2	2,696.84	1/2	2,387.75	1/2	2,078.66		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,922.54	3/4	3,614.85	3/4	3,307.17	3/4	2,999.48	3/4	2,690.40	3/4	2,381.31	3/4	2,072.22		
8	8	8	8	8	8	8	3,916.13	8	3,608.44	8	3,300.76	8	2,993.04	8	2,683.96	8	2,374.87	8	2,065.79		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,909.72	1/4	3,602.03	1/4	3,294.35	1/4	2,986.61	1/4	2,677.52	1/4	2,368.43	1/4	2,059.35		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,903.31	1/2	3,595.62	1/2	3,287.94	1/2	2,980.17	1/2	2,671.08	1/2	2,361.99	1/2	2,052.91		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,896.90	3/4	3,589.21	3/4	3,281.53	3/4	2,973.73	3/4	2,664.64	3/4	2,355.55	3/4	2,046.47		
9	9	9	9	9	9	9	3,890.49	9	3,582.80	9	3,275.12	9	2,967.29	9	2,658.20	9	2,349.11	9	2,040.03		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,884.08	1/4	3,576.39	1/4	3,268.71	1/4	2,960.85	1/4	2,651.76	1/4	2,342.68	1/4	2,033.59		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,877.67	1/2	3,569.98	1/2	3,262.30	1/2	2,954.41	1/2	2,645.32	1/2	2,336.24	1/2	2,027.15		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,871.26	3/4	3,563.57	3/4	3,255.89	3/4	2,947.97	3/4	2,638.88	3/4	2,329.80	3/4	2,020.71		
10	10	10	10	10	10	10	3,864.85	10	3,557.16	10	3,249.48	10	2,941.53	10	2,632.44	10	2,323.36	10	2,014.27		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,858.44	1/4	3,550.75	1/4	3,243.07	1/4	2,935.09	1/4	2,626.00	1/4	2,316.92	1/4	2,007.83		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,852.03	1/2	3,544.34	1/2	3,236.66	1/2	2,928.65	1/2	2,619.57	1/2	2,310.48	1/2	2,001.39		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,845.62	3/4	3,537.93	3/4	3,230.25	3/4	2,922.21	3/4	2,613.13	3/4	2,304.04	3/4	1,994.95		
11	11	11	11	11	11	11	3,839.21	11	3,531.52	11	3,223.84	11	2,915.77	11	2,606.69	11	2,297.60	11	1,988.51		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	4,110.29	1/4	3,832.80	1/4	3,525.11	1/4	3,217.43	1/4	2,909.33	1/4	2,600.25	1/4	2,291.16	1/4	1,982.07
1/2	1/2	1/2	1/2	1/2	1/2	1/2	4,109.22	1/2	3,826.39	1/2	3,518.70	1/2	3,211.02	1/2	2,902.89	1/2	2,593.81	1/2	2,284.72	1/2	1,975.64
3/4	3/4	3/4	3/4	3/4	3/4	3/4	4,108.15	3/4	3,819.98	3/4	3,512.29	3/4	3,204.61	3/4	2,896.46	3/4	2,587.37	3/4	2,278.28	3/4	1,969.20

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 32'-03" 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 11023B"

1 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 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	1,962.76	0	1,653.67	0	1,344.41	0	1,036.06	0	727.53	0	418.30	0	109.21	0		0			
1/4	1,956.32	1/4	1,647.22	1/4	1,337.96	1/4	1,029.65	1/4	721.09	1/4	411.85	1/4	102.81	1/4	1/4	1/4			
1/2	1,949.88	1/2	1,640.78	1/2	1,331.52	1/2	1,023.25	1/2	714.65	1/2	405.41	1/2	96.41	1/2	1/2	1/2			
3/4	1,943.44	3/4	1,634.34	3/4	1,325.08	3/4	1,016.84	3/4	708.20	3/4	398.97	3/4	90.00	3/4	3/4	3/4			
1	1,937.00	1	1,627.90	1	1,318.64	1	1,010.44	1	701.76	1	392.53	1	83.64	1	1	1			
1/4	1,930.56	1/4	1,621.45	1/4	1,312.19	1/4	1,004.03	1/4	695.32	1/4	386.08	1/4	77.27	1/4	1/4	1/4			
1/2	1,924.12	1/2	1,615.01	1/2	1,305.75	1/2	997.62	1/2	688.88	1/2	379.64	1/2	70.90	1/2	1/2	1/2			
3/4	1,917.68	3/4	1,608.57	3/4	1,299.31	3/4	991.22	3/4	682.43	3/4	373.20	3/4	64.53	3/4	3/4	3/4			
2	1,911.24	2	1,602.12	2	1,292.86	2	984.81	2	675.99	2	366.76	2	58.22	2	2	2			
1/4	1,904.80	1/4	1,595.68	1/4	1,286.42	1/4	978.40	1/4	669.55	1/4	360.31	1/4	51.91	1/4	1/4	1/4			
1/2	1,898.36	1/2	1,589.24	1/2	1,279.98	1/2	972.00	1/2	663.11	1/2	353.87	1/2	45.60	1/2	1/2	1/2			
3/4	1,891.92	3/4	1,582.79	3/4	1,273.54	3/4	965.59	3/4	656.66	3/4	347.43	3/4	39.30	3/4	3/4	3/4			
3	1,885.49	3	1,576.35	3	1,267.09	3	959.19	3	650.22	3	340.99	3	33.94	3	3	3			
1/4	1,879.05	1/4	1,569.91	1/4	1,260.65	1/4	952.79	1/4	643.78	1/4	334.54	1/4	28.58	1/4	1/4	1/4			
1/2	1,872.61	1/2	1,563.47	1/2	1,254.21	1/2	946.39	1/2	637.34	1/2	328.10	1/2	23.22	1/2	1/2	1/2			
3/4	1,866.17	3/4	1,557.02	3/4	1,247.76	3/4	939.99	3/4	630.90	3/4	321.66	3/4	17.86	3/4	3/4	3/4			
4	1,859.73	4	1,550.58	4	1,241.32	4	933.55	4	624.45	4	315.22	4	14.64	4	4	4			
1/4	1,853.29	1/4	1,544.14	1/4	1,234.88	1/4	927.11	1/4	618.01	1/4	308.78	1/4	11.42	1/4	1/4	1/4			
1/2	1,846.85	1/2	1,537.69	1/2	1,228.44	1/2	920.67	1/2	611.57	1/2	302.33	1/2	8.19	1/2	1/2	1/2			
3/4	1,840.41	3/4	1,531.25	3/4	1,221.99	3/4	914.24	3/4	605.13	3/4	295.89	3/4	4.97	3/4	3/4	3/4			
5	1,833.97	5	1,524.81	5	1,215.55	5	907.80	5	598.68	5	289.45	5	3.90	5	5	5			
1/4	1,827.53	1/4	1,518.37	1/4	1,209.11	1/4	901.36	1/4	592.24	1/4	283.01	1/4	2.83	1/4	1/4	1/4			
1/2	1,821.09	1/2	1,511.92	1/2	1,202.66	1/2	894.92	1/2	585.80	1/2	276.56	1/2	1.75	1/2	1/2	1/2			
3/4	1,814.65	3/4	1,505.48	3/4	1,196.22	3/4	888.49	3/4	579.36	3/4	270.12	3/4	0.68	3/4	3/4	3/4			
6	1,808.21	6	1,499.04	6	1,189.81	6	882.05	6	572.91	6	263.68	6		6	6	6			
1/4	1,801.77	1/4	1,492.59	1/4	1,183.41	1/4	875.61	1/4	566.47	1/4	257.24	1/4		1/4	1/4	1/4			
1/2	1,795.33	1/2	1,486.15	1/2	1,177.00	1/2	869.17	1/2	560.03	1/2	250.79	1/2		1/2	1/2	1/2			
3/4	1,788.90	3/4	1,479.71	3/4	1,170.60	3/4	862.74	3/4	553.59	3/4	244.35	3/4		3/4	3/4	3/4			
7	1,782.46	7	1,473.27	7	1,164.19	7	856.30	7	547.14	7	237.91	7		7	7	7			
1/4	1,776.02	1/4	1,466.82	1/4	1,157.78	1/4	849.86	1/4	540.70	1/4	231.47	1/4		1/4	1/4	1/4			
1/2	1,769.58	1/2	1,460.38	1/2	1,151.38	1/2	843.42	1/2	534.26	1/2	225.02	1/2		1/2	1/2	1/2			
3/4	1,763.14	3/4	1,453.94	3/4	1,144.97	3/4	836.99	3/4	527.82	3/4	218.58	3/4		3/4	3/4	3/4			
8	1,756.70	8	1,447.49	8	1,138.56	8	830.55	8	521.37	8	212.14	8		8	8	8			
1/4	1,750.26	1/4	1,441.05	1/4	1,132.16	1/4	824.11	1/4	514.93	1/4	205.70	1/4		1/4	1/4	1/4			
1/2	1,743.82	1/2	1,434.61	1/2	1,125.75	1/2	817.67	1/2	508.49	1/2	199.25	1/2		1/2	1/2	1/2			
3/4	1,737.38	3/4	1,428.17	3/4	1,119.34	3/4	811.24	3/4	502.05	3/4	192.81	3/4		3/4	3/4	3/4			
9	1,730.94	9	1,421.72	9	1,112.94	9	804.80	9	495.60	9	186.37	9		9	9	9			
1/4	1,724.50	1/4	1,415.28	1/4	1,106.53	1/4	798.36	1/4	489.16	1/4	179.93	1/4		1/4	1/4	1/4			
1/2	1,718.06	1/2	1,408.84	1/2	1,100.12	1/2	791.92	1/2	482.72	1/2	173.49	1/2		1/2	1/2	1/2			
3/4	1,711.62	3/4	1,402.39	3/4	1,093.72	3/4	785.49	3/4	476.28	3/4	167.05	3/4		3/4	3/4	3/4			
10	1,705.18	10	1,395.95	10	1,087.31	10	779.05	10	469.84	10	160.61	10		10	10	10			
1/4	1,698.75	1/4	1,389.51	1/4	1,080.91	1/4	772.61	1/4	463.39	1/4	154.17	1/4		1/4	1/4	1/4			
1/2	1,692.31	1/2	1,383.06	1/2	1,074.50	1/2	766.18	1/2	456.95	1/2	147.74	1/2		1/2	1/2	1/2			
3/4	1,685.87	3/4	1,376.62	3/4	1,068.09	3/4	759.74	3/4	450.51	3/4	141.30	3/4		3/4	3/4	3/4			
11	1,679.43	11	1,370.18	11	1,061.69	11	753.30	11	444.07	11	134.88	11		11	11	11			
1/4	1,672.99	1/4	1,363.74	1/4	1,055.28	1/4	746.86	1/4	437.62	1/4	128.46	1/4		1/4	1/4	1/4			
1/2	1,666.55	1/2	1,357.29	1/2	1,048.87	1/2	740.41	1/2	431.18	1/2	122.03	1/2		1/2	1/2	1/2			
3/4	1,660.11	3/4	1,350.85	3/4	1,042.47	3/4	733.97	3/4	424.74	3/4	115.61	3/4		3/4	3/4	3/4			

STRAPPED: 06/28/2010 CL - SW
CALCULATED: 06/28/2010 CL
PRINTED: 06/28/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2010

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 11023B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	0 FT.	IN	1 FT.	IN	2 FT.	IN	3 FT.	IN	4 FT.	IN	5 FT.	IN	6 FT.	IN	7 FT.	IN	8 FT.	IN	9 FT.		
0	0	0	0	0	0	0	3,921.82	0	3,640.02	0	3,345.54	0	3,051.05	0	2,756.04	0	2,460.17	0	2,164.29		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,918.74	1/4	3,633.89	1/4	3,339.40	1/4	3,044.92	1/4	2,749.88	1/4	2,454.00	1/4	2,158.13		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,915.66	1/2	3,627.75	1/2	3,333.27	1/2	3,038.78	1/2	2,743.72	1/2	2,447.84	1/2	2,151.96		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,910.52	3/4	3,621.62	3/4	3,327.13	3/4	3,032.65	3/4	2,737.55	3/4	2,441.68	3/4	2,145.80		
1	1	1	1	1	1	1	3,905.38	1	3,615.48	1	3,321.00	1	3,026.51	1	2,731.39	1	2,435.51	1	2,139.63		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,900.24	1/4	3,609.35	1/4	3,314.86	1/4	3,020.38	1/4	2,725.22	1/4	2,429.35	1/4	2,133.47		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,895.11	1/2	3,603.21	1/2	3,308.73	1/2	3,014.24	1/2	2,719.06	1/2	2,423.18	1/2	2,127.31		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,889.12	3/4	3,597.08	3/4	3,302.59	3/4	3,008.11	3/4	2,712.90	3/4	2,417.02	3/4	2,121.14		
2	2	2	2	2	2	2	3,883.13	2	3,590.94	2	3,296.46	2	3,001.97	2	2,706.73	2	2,410.85	2	2,114.98		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,877.14	1/4	3,584.80	1/4	3,290.32	1/4	2,995.84	1/4	2,700.57	1/4	2,404.69	1/4	2,108.81		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,871.15	1/2	3,578.67	1/2	3,284.19	1/2	2,989.70	1/2	2,694.40	1/2	2,398.53	1/2	2,102.65		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,865.12	3/4	3,572.53	3/4	3,278.05	3/4	2,983.57	3/4	2,688.24	3/4	2,392.36	3/4	2,096.49		
3	3	3	3	3	3	3	3,859.10	3	3,566.40	3	3,271.91	3	2,977.43	3	2,682.08	3	2,386.20	3	2,090.32		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,853.07	1/4	3,560.26	1/4	3,265.78	1/4	2,971.29	1/4	2,675.91	1/4	2,380.03	1/4	2,084.16		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,847.04	1/2	3,554.13	1/2	3,259.64	1/2	2,965.16	1/2	2,669.75	1/2	2,373.87	1/2	2,077.99		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,841.01	3/4	3,547.99	3/4	3,253.51	3/4	2,959.02	3/4	2,663.58	3/4	2,367.71	3/4	2,071.83		
4	4	4	4	4	4	4	3,834.97	4	3,541.86	4	3,247.37	4	2,952.89	4	2,657.42	4	2,361.54	4	2,065.67		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,828.94	1/4	3,535.72	1/4	3,241.24	1/4	2,946.75	1/4	2,651.25	1/4	2,355.38	1/4	2,059.50		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,822.90	1/2	3,529.59	1/2	3,235.10	1/2	2,940.62	1/2	2,645.09	1/2	2,349.21	1/2	2,053.34		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,816.86	3/4	3,523.45	3/4	3,228.97	3/4	2,934.48	3/4	2,638.93	3/4	2,343.05	3/4	2,047.17		
5	5	5	5	5	5	5	3,810.82	5	3,517.32	5	3,222.83	5	2,928.35	5	2,632.76	5	2,336.89	5	2,041.01		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,804.78	1/4	3,511.18	1/4	3,216.70	1/4	2,922.21	1/4	2,626.60	1/4	2,330.72	1/4	2,034.84		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,798.74	1/2	3,505.05	1/2	3,210.56	1/2	2,916.08	1/2	2,620.43	1/2	2,324.56	1/2	2,028.68		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,792.71	3/4	3,498.91	3/4	3,204.43	3/4	2,909.94	3/4	2,614.27	3/4	2,318.39	3/4	2,022.52		
6	6	6	6	6	6	6	3,786.67	6	3,492.78	6	3,198.29	6	2,903.81	6	2,608.11	6	2,312.23	6	2,016.35		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,780.63	1/4	3,486.64	1/4	3,192.16	1/4	2,897.67	1/4	2,601.94	1/4	2,306.07	1/4	2,010.19		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,774.60	1/2	3,480.51	1/2	3,186.02	1/2	2,891.54	1/2	2,595.78	1/2	2,299.90	1/2	2,004.02		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,768.56	3/4	3,474.37	3/4	3,179.89	3/4	2,885.40	3/4	2,589.61	3/4	2,293.74	3/4	1,997.86		
7	7	7	7	7	7	7	3,762.53	7	3,468.24	7	3,173.75	7	2,879.27	7	2,583.45	7	2,287.57	7	1,991.70		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,756.49	1/4	3,462.10	1/4	3,167.62	1/4	2,873.13	1/4	2,577.29	1/4	2,281.41	1/4	1,985.53		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,750.45	1/2	3,455.97	1/2	3,161.48	1/2	2,867.00	1/2	2,571.12	1/2	2,275.24	1/2	1,979.37		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,744.32	3/4	3,449.83	3/4	3,155.35	3/4	2,860.83	3/4	2,564.96	3/4	2,269.08	3/4	1,973.20		
8	8	8	8	8	8	8	3,738.18	8	3,443.70	8	3,149.21	8	2,854.67	8	2,558.79	8	2,262.92	8	1,967.04		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,732.05	1/4	3,437.56	1/4	3,143.08	1/4	2,848.51	1/4	2,552.63	1/4	2,256.75	1/4	1,960.88		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,725.91	1/2	3,431.43	1/2	3,136.94	1/2	2,842.34	1/2	2,546.47	1/2	2,250.59	1/2	1,954.71		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,719.78	3/4	3,425.29	3/4	3,130.81	3/4	2,836.18	3/4	2,540.30	3/4	2,244.42	3/4	1,948.55		
9	9	9	9	9	9	9	3,713.64	9	3,419.16	9	3,124.67	9	2,830.01	9	2,534.14	9	2,238.26	9	1,942.38		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,707.51	1/4	3,413.02	1/4	3,118.54	1/4	2,823.85	1/4	2,527.97	1/4	2,232.10	1/4	1,936.22		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,701.37	1/2	3,406.89	1/2	3,112.40	1/2	2,817.69	1/2	2,521.81	1/2	2,225.93	1/2	1,930.06		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,695.24	3/4	3,400.75	3/4	3,106.27	3/4	2,811.52	3/4	2,515.64	3/4	2,219.77	3/4	1,923.89		
10	10	10	10	10	10	10	3,689.10	10	3,394.62	10	3,100.13	10	2,805.36	10	2,509.48	10	2,213.60	10	1,917.73		
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,682.97	1/4	3,388.48	1/4	3,094.00	1/4	2,799.19	1/4	2,503.32	1/4	2,207.44	1/4	1,911.56		
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,676.83	1/2	3,382.35	1/2	3,087.86	1/2	2,793.03	1/2	2,497.15	1/2	2,201.28	1/2	1,905.40		
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,670.70	3/4	3,376.21	3/4	3,081.73	3/4	2,786.86	3/4	2,490.99	3/4	2,195.11	3/4	1,899.23		
11	11	11	11	11	11	11	3,930.05	11	3,664.56	11	3,370.08	11	3,075.59	11	2,780.70	11	2,484.82	11	2,188.95	11	1,893.07
1/4	1/4	1/4	1/4	1/4	1/4	1/4	3,929.02	1/4	3,658.43	1/4	3,363.94	1/4	3,069.46	1/4	2,774.54	1/4	2,478.66	1/4	2,182.78	1/4	1,886.91
1/2	1/2	1/2	1/2	1/2	1/2	1/2	3,927.99	1/2	3,652.29	1/2	3,357.81	1/2	3,063.32	1/2	2,768.37	1/2	2,472.50	1/2	2,176.62	1/2	1,880.74
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3,924.91	3/4	3,646.16	3/4	3,351.67	3/4	3,057.19	3/4	2,762.21	3/4	2,466.33	3/4	2,170.45	3/4	1,874.58

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
<http://www.pmacorp.net>



BARGE "KIRBY 11023B"

2 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

10 FT.		11 FT.		12 FT.		13 FT.		14 FT.		15 FT.		16 FT.		17 FT.		18 FT.		19 FT.			
IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0	IN	0
1/4	1,862.25	1/4	1,566.36	1/4	1,270.31	1/4	976.38	1/4	684.15	1/4	388.12	1/4	92.32	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,856.09	1/2	1,560.19	1/2	1,264.14	1/2	970.29	1/2	677.99	1/2	381.96	1/2	86.19	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,849.92	3/4	1,554.03	3/4	1,257.97	3/4	964.21	3/4	671.82	3/4	375.79	3/4	80.09	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1	1,843.76	1	1,547.86	1	1,251.80	1	958.13	1	665.65	1	369.62	1	73.99	1	1	1	1	1	1	1	1
1/4	1,837.59	1/4	1,541.69	1/4	1,245.64	1/4	952.04	1/4	659.49	1/4	363.46	1/4	67.90	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,831.43	1/2	1,535.52	1/2	1,239.47	1/2	945.96	1/2	653.32	1/2	357.29	1/2	61.80	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,825.27	3/4	1,529.36	3/4	1,233.30	3/4	939.88	3/4	647.15	3/4	351.12	3/4	55.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
2	1,819.10	2	1,523.19	2	1,227.13	2	933.80	2	640.98	2	344.95	2	49.72	2	2	2	2	2	2	2	2
1/4	1,812.94	1/4	1,517.02	1/4	1,220.97	1/4	927.71	1/4	634.82	1/4	338.79	1/4	43.68	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,806.77	1/2	1,510.85	1/2	1,214.80	1/2	921.63	1/2	628.65	1/2	332.62	1/2	37.64	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,800.61	3/4	1,504.68	3/4	1,208.63	3/4	915.55	3/4	622.48	3/4	326.45	3/4	32.51	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
3	1,794.44	3	1,498.52	3	1,202.46	3	909.47	3	616.31	3	320.28	3	27.38	3	3	3	3	3	3	3	3
1/4	1,788.28	1/4	1,492.35	1/4	1,196.29	1/4	903.40	1/4	610.15	1/4	314.12	1/4	22.25	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,782.12	1/2	1,486.18	1/2	1,190.13	1/2	897.32	1/2	603.98	1/2	307.95	1/2	17.12	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,775.95	3/4	1,480.01	3/4	1,183.96	3/4	891.24	3/4	597.81	3/4	301.78	3/4	14.04	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
4	1,769.79	4	1,473.85	4	1,177.79	4	885.16	4	591.65	4	295.62	4	10.96	4	4	4	4	4	4	4	4
1/4	1,763.62	1/4	1,467.68	1/4	1,171.62	1/4	879.09	1/4	585.48	1/4	289.45	1/4	7.87	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,757.46	1/2	1,461.51	1/2	1,165.46	1/2	873.01	1/2	579.31	1/2	283.28	1/2	4.79	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,751.30	3/4	1,455.34	3/4	1,159.29	3/4	866.93	3/4	573.14	3/4	277.11	3/4	3.76	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
5	1,745.13	5	1,449.17	5	1,153.12	5	860.85	5	566.98	5	270.95	5	2.73	5	5	5	5	5	5	5	5
1/4	1,738.97	1/4	1,443.01	1/4	1,146.95	1/4	854.78	1/4	560.81	1/4	264.78	1/4	1.71	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,732.80	1/2	1,436.84	1/2	1,140.78	1/2	848.70	1/2	554.64	1/2	258.61	1/2	0.68	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,726.64	3/4	1,430.67	3/4	1,134.66	3/4	842.62	3/4	548.47	3/4	252.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
6	1,720.48	6	1,424.50	6	1,128.53	6	836.54	6	542.31	6	246.28	6		6	6	6	6	6	6	6	6
1/4	1,714.31	1/4	1,418.33	1/4	1,122.41	1/4	830.47	1/4	536.14	1/4	240.11	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,708.15	1/2	1,412.17	1/2	1,116.29	1/2	824.39	1/2	529.97	1/2	233.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,701.98	3/4	1,406.00	3/4	1,110.20	3/4	818.31	3/4	523.81	3/4	227.77	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
7	1,695.82	7	1,399.83	7	1,104.12	7	812.23	7	517.64	7	221.61	7		7	7	7	7	7	7	7	7
1/4	1,689.66	1/4	1,393.66	1/4	1,098.04	1/4	806.16	1/4	511.47	1/4	215.44	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,683.49	1/2	1,387.50	1/2	1,091.95	1/2	800.08	1/2	505.30	1/2	209.27	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,677.33	3/4	1,381.33	3/4	1,085.87	3/4	794.00	3/4	499.14	3/4	203.11	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
8	1,671.16	8	1,375.16	8	1,079.79	8	787.92	8	492.97	8	196.94	8		8	8	8	8	8	8	8	8
1/4	1,665.00	1/4	1,368.99	1/4	1,073.70	1/4	781.84	1/4	486.80	1/4	190.77	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,658.83	1/2	1,362.82	1/2	1,067.62	1/2	775.77	1/2	480.63	1/2	184.60	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,652.67	3/4	1,356.66	3/4	1,061.54	3/4	769.69	3/4	474.47	3/4	178.44	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
9	1,646.51	9	1,350.49	9	1,055.46	9	763.61	9	468.30	9	172.27	9		9	9	9	9	9	9	9	9
1/4	1,640.34	1/4	1,344.32	1/4	1,049.37	1/4	757.53	1/4	462.13	1/4	166.10	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,634.18	1/2	1,338.15	1/2	1,043.29	1/2	751.46	1/2	455.97	1/2	159.94	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,628.01	3/4	1,331.99	3/4	1,037.21	3/4	745.38	3/4	449.80	3/4	153.78	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
10	1,621.85	10	1,325.82	10	1,031.12	10	739.30	10	443.63	10	147.62	10		10	10	10	10	10	10	10	10
1/4	1,615.69	1/4	1,319.65	1/4	1,025.04	1/4	733.23	1/4	437.46	1/4	141.45	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,609.52	1/2	1,313.48	1/2	1,018.96	1/2	727.15	1/2	431.30	1/2	135.29	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,603.36	3/4	1,307.31	3/4	1,012.87	3/4	721.03	3/4	425.13	3/4	129.14	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
11	1,597.19	11	1,301.15	11	1,006.79	11	714.90	11	418.96	11	123.00	11		11	11	11	11	11	11	11	11
1/4	1,591.03	1/4	1,294.98	1/4	1,000.71	1/4	708.78	1/4	412.79	1/4	116.85	1/4		1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
1/2	1,584.87	1/2	1,288.81	1/2	994.63	1/2	702.65	1/2	406.63	1/2	110.70	1/2		1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
3/4	1,578.70	3/4	1,282.64	3/4	988.54	3/4	696.49	3/4	400.46	3/4	104.57	3/4		3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4

STRAPPED: 06/28/2010 CL - SW
CALCULATED: 06/28/2010 CL
PRINTED: 06/28/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2010

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 11023B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

0 FT.		1 FT.		2 FT.		3 FT.		4 FT.		5 FT.		6 FT.		7 FT.		8 FT.		9 FT.		
IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	IN	OUT	
0	0	0	0	0	0	3,531.91	0	3,337.77	0	3,143.64	0	2,949.52	0	2,734.53	0	2,441.76	0	2,148.35		
1/4	1/4	1/4	1/4	1/4	1/4	3,528.84	1/4	3,333.73	1/4	3,139.60	1/4	2,945.47	1/4	2,728.44	1/4	2,435.65	1/4	2,142.24		
1/2	1/2	1/2	1/2	1/2	1/2	3,525.77	1/2	3,329.68	1/2	3,135.56	1/2	2,941.43	1/2	2,722.34	1/2	2,429.53	1/2	2,136.13		
3/4	3/4	3/4	3/4	3/4	3/4	3,520.66	3/4	3,325.64	3/4	3,131.51	3/4	2,937.39	3/4	2,716.25	3/4	2,423.42	3/4	2,130.02		
1	1	1	1	1	1	3,515.54	1	3,321.59	1	3,127.47	1	2,933.34	1	2,710.16	1	2,417.31	1	2,123.90		
1/4	1/4	1/4	1/4	1/4	1/4	3,510.43	1/4	3,317.55	1/4	3,123.42	1/4	2,929.30	1/4	2,704.06	1/4	2,411.20	1/4	2,117.79		
1/2	1/2	1/2	1/2	1/2	1/2	3,505.32	1/2	3,313.51	1/2	3,119.38	1/2	2,925.25	1/2	2,697.97	1/2	2,405.08	1/2	2,111.68		
3/4	3/4	3/4	3/4	3/4	3/4	3,501.41	3/4	3,309.46	3/4	3,115.33	3/4	2,921.21	3/4	2,691.87	3/4	2,398.97	3/4	2,105.57		
2	2	2	2	2	2	3,497.50	2	3,305.42	2	3,111.29	2	2,917.16	2	2,685.78	2	2,392.86	2	2,099.45		
1/4	1/4	1/4	1/4	1/4	1/4	3,493.59	1/4	3,301.37	1/4	3,107.25	1/4	2,913.12	1/4	2,679.69	1/4	2,386.75	1/4	2,093.34		
1/2	1/2	1/2	1/2	1/2	1/2	3,489.68	1/2	3,297.33	1/2	3,103.20	1/2	2,909.08	1/2	2,673.59	1/2	2,380.63	1/2	2,087.23		
3/4	3/4	3/4	3/4	3/4	3/4	3,485.73	3/4	3,293.28	3/4	3,099.16	3/4	2,905.03	3/4	2,667.50	3/4	2,374.52	3/4	2,081.12		
3	3	3	3	3	3	3,481.79	3	3,289.24	3	3,095.11	3	2,900.99	3	2,661.40	3	2,368.41	3	2,075.00		
1/4	1/4	1/4	1/4	1/4	1/4	3,477.84	1/4	3,285.20	1/4	3,091.07	1/4	2,896.94	1/4	2,655.31	1/4	2,362.29	1/4	2,068.89		
1/2	1/2	1/2	1/2	1/2	1/2	3,473.90	1/2	3,281.15	1/2	3,087.02	1/2	2,892.90	1/2	2,649.22	1/2	2,356.18	1/2	2,062.78		
3/4	3/4	3/4	3/4	3/4	3/4	3,469.94	3/4	3,277.11	3/4	3,082.98	3/4	2,888.85	3/4	2,643.12	3/4	2,350.07	3/4	2,056.66		
4	4	4	4	4	4	3,465.98	4	3,273.06	4	3,078.94	4	2,884.81	4	2,637.03	4	2,343.96	4	2,050.55		
1/4	1/4	1/4	1/4	1/4	1/4	3,462.02	1/4	3,269.02	1/4	3,074.89	1/4	2,880.77	1/4	2,630.93	1/4	2,337.84	1/4	2,044.44		
1/2	1/2	1/2	1/2	1/2	1/2	3,458.06	1/2	3,264.97	1/2	3,070.85	1/2	2,876.72	1/2	2,624.84	1/2	2,331.73	1/2	2,038.33		
3/4	3/4	3/4	3/4	3/4	3/4	3,454.10	3/4	3,260.93	3/4	3,066.80	3/4	2,872.68	3/4	2,618.75	3/4	2,325.62	3/4	2,032.21		
5	5	5	5	5	5	3,450.14	5	3,256.89	5	3,062.76	5	2,868.63	5	2,612.65	5	2,319.51	5	2,026.10		
1/4	1/4	1/4	1/4	1/4	1/4	3,446.19	1/4	3,252.84	1/4	3,058.71	1/4	2,864.59	1/4	2,606.56	1/4	2,313.39	1/4	2,019.99		
1/2	1/2	1/2	1/2	1/2	1/2	3,442.23	1/2	3,248.80	1/2	3,054.67	1/2	2,860.54	1/2	2,600.46	1/2	2,307.28	1/2	2,013.88		
3/4	3/4	3/4	3/4	3/4	3/4	3,438.27	3/4	3,244.75	3/4	3,050.63	3/4	2,856.50	3/4	2,594.37	3/4	2,301.17	3/4	2,007.76		
6	6	6	6	6	6	3,434.31	6	3,240.71	6	3,046.58	6	2,852.46	6	2,588.28	6	2,295.06	6	2,001.65		
1/4	1/4	1/4	1/4	1/4	1/4	3,430.35	1/4	3,236.66	1/4	3,042.54	1/4	2,848.41	1/4	2,582.18	1/4	2,288.94	1/4	1,995.54		
1/2	1/2	1/2	1/2	1/2	1/2	3,426.40	1/2	3,232.62	1/2	3,038.49	1/2	2,844.37	1/2	2,576.09	1/2	2,282.83	1/2	1,989.43		
3/4	3/4	3/4	3/4	3/4	3/4	3,422.44	3/4	3,228.58	3/4	3,034.45	3/4	2,840.32	3/4	2,569.99	3/4	2,276.72	3/4	1,983.31		
7	7	7	7	7	7	3,418.48	7	3,224.53	7	3,030.40	7	2,836.28	7	2,563.90	7	2,270.61	7	1,977.20		
1/4	1/4	1/4	1/4	1/4	1/4	3,414.53	1/4	3,220.49	1/4	3,026.36	1/4	2,832.23	1/4	2,557.81	1/4	2,264.49	1/4	1,971.09		
1/2	1/2	1/2	1/2	1/2	1/2	3,410.57	1/2	3,216.44	1/2	3,022.32	1/2	2,828.19	1/2	2,551.71	1/2	2,258.38	1/2	1,964.98		
3/4	3/4	3/4	3/4	3/4	3/4	3,406.52	3/4	3,212.40	3/4	3,018.27	3/4	2,824.12	3/4	2,545.62	3/4	2,252.27	3/4	1,958.86		
8	8	8	8	8	8	3,402.48	8	3,208.35	8	3,014.23	8	2,820.05	8	2,539.52	8	2,246.16	8	1,952.75		
1/4	1/4	1/4	1/4	1/4	1/4	3,398.44	1/4	3,204.31	1/4	3,010.18	1/4	2,815.98	1/4	2,533.43	1/4	2,240.04	1/4	1,946.64		
1/2	1/2	1/2	1/2	1/2	1/2	3,394.39	1/2	3,200.27	1/2	3,006.14	1/2	2,811.91	1/2	2,527.34	1/2	2,233.93	1/2	1,940.53		
3/4	3/4	3/4	3/4	3/4	3/4	3,390.35	3/4	3,196.22	3/4	3,002.09	3/4	2,807.84	3/4	2,521.22	3/4	2,227.82	3/4	1,934.41		
9	9	9	9	9	9	3,386.30	9	3,192.18	9	2,998.05	9	2,803.77	9	2,515.11	9	2,221.71	9	1,928.30		
1/4	1/4	1/4	1/4	1/4	1/4	3,382.26	1/4	3,188.13	1/4	2,994.01	1/4	2,799.70	1/4	2,509.00	1/4	2,215.59	1/4	1,922.19		
1/2	1/2	1/2	1/2	1/2	1/2	3,378.21	1/2	3,184.09	1/2	2,989.96	1/2	2,795.64	1/2	2,502.88	1/2	2,209.48	1/2	1,916.08		
3/4	3/4	3/4	3/4	3/4	3/4	3,374.17	3/4	3,180.04	3/4	2,985.92	3/4	2,789.50	3/4	2,496.77	3/4	2,203.37	3/4	1,909.96		
10	10	10	10	10	10	3,370.13	10	3,176.00	10	2,981.87	10	2,783.37	10	2,490.66	10	2,197.25	10	1,903.85		
1/4	1/4	1/4	1/4	1/4	1/4	3,366.08	1/4	3,171.96	1/4	2,977.83	1/4	2,777.23	1/4	2,484.55	1/4	2,191.14	1/4	1,897.74		
1/2	1/2	1/2	1/2	1/2	1/2	3,362.04	1/2	3,167.91	1/2	2,973.78	1/2	2,771.10	1/2	2,478.43	1/2	2,185.03	1/2	1,891.62		
3/4	3/4	3/4	3/4	3/4	3/4	3,357.99	3/4	3,163.87	3/4	2,969.74	3/4	2,765.00	3/4	2,472.32	3/4	2,178.92	3/4	1,885.51		
11	11	11	11	11	11	3,540.09	11	3,353.95	11	3,159.82	11	2,965.70	11	2,758.91	11	2,466.21	11	2,172.80	11	1,879.40
1/4	1/4	1/4	1/4	1/4	1/4	3,539.07	1/4	3,349.90	1/4	3,155.78	1/4	2,961.65	1/4	2,752.81	1/4	2,460.10	1/4	2,166.69	1/4	1,873.29
1/2	1/2	1/2	1/2	1/2	1/2	3,538.04	1/2	3,345.86	1/2	3,151.73	1/2	2,957.61	1/2	2,746.72	1/2	2,453.98	1/2	2,160.58	1/2	1,867.17
3/4	3/4	3/4	3/4	3/4	3/4	3,534.97	3/4	3,341.82	3/4	3,147.69	3/4	2,953.56	3/4	2,740.63	3/4	2,447.87	3/4	2,154.47	3/4	1,861.06

BARGE STRAPPED AND COMPUTED IN ACCORDANCE WITH MPMS CHAPTER 2.7.
 CAPACITY TABLE ONLY APPLIES WHEN BARGE IS ON EVEN KEEL.
 CAPACITY TABLE EXTENDS TO EXTREME HEIGHT OF TANK.
 CAPACITY TABLE ONLY APPLIES TO ULLAGE GAUGES TAKEN WITH "HERMETIC" CLOSED GAUGING DEVICE.
 GAUGE POINT: (HERMETIC) LOCATED ON CENTERLINE AND 31'-09" FORWARD OF AFT BULKHEAD.

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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



BARGE "KIRBY 11023B"

3 CENTER ULLAGE TABLE

CAPACITIES GIVEN IN BARRELS OF 42 U.S. GALLONS

GAUGE HEIGHT 16'-05 1/2"

IN	10 FT.	IN	11 FT.	IN	12 FT.	IN	13 FT.	IN	14 FT.	IN	15 FT.	IN	16 FT.	IN	17 FT.	IN	18 FT.	IN	19 FT.
0	1,854.95	0	1,561.28	0	1,267.47	0	973.66	0	685.91	0	391.93	0	97.97	0		0		0	
1/4	1,848.84	1/4	1,555.16	1/4	1,261.35	1/4	967.53	1/4	679.80	1/4	385.80	1/4	91.87	1/4		1/4		1/4	
1/2	1,842.72	1/2	1,549.04	1/2	1,255.23	1/2	961.41	1/2	673.70	1/2	379.68	1/2	85.77	1/2		1/2		1/2	
3/4	1,836.61	3/4	1,542.92	3/4	1,249.11	3/4	955.36	3/4	667.57	3/4	373.55	3/4	79.70	3/4		3/4		3/4	
1	1,830.50	1	1,536.80	1	1,242.98	1	949.30	1	661.45	1	367.43	1	73.64	1		1		1	
1/4	1,824.39	1/4	1,530.68	1/4	1,236.86	1/4	943.24	1/4	655.32	1/4	361.30	1/4	67.57	1/4		1/4		1/4	
1/2	1,818.27	1/2	1,524.55	1/2	1,230.74	1/2	937.18	1/2	649.20	1/2	355.18	1/2	61.51	1/2		1/2		1/2	
3/4	1,812.16	3/4	1,518.43	3/4	1,224.62	3/4	931.19	3/4	643.07	3/4	349.05	3/4	55.49	3/4		3/4		3/4	
2	1,806.05	2	1,512.31	2	1,218.50	2	925.19	2	636.95	2	342.92	2	49.48	2		2		2	
1/4	1,799.94	1/4	1,506.19	1/4	1,212.38	1/4	919.19	1/4	630.82	1/4	336.80	1/4	43.47	1/4		1/4		1/4	
1/2	1,793.82	1/2	1,500.07	1/2	1,206.26	1/2	913.20	1/2	624.70	1/2	330.67	1/2	37.46	1/2		1/2		1/2	
3/4	1,787.70	3/4	1,493.95	3/4	1,200.14	3/4	907.21	3/4	618.57	3/4	324.55	3/4	32.36	3/4		3/4		3/4	
3	1,781.58	3	1,487.83	3	1,194.02	3	901.21	3	612.45	3	318.42	3	27.25	3		3		3	
1/4	1,775.46	1/4	1,481.71	1/4	1,187.89	1/4	895.22	1/4	606.32	1/4	312.30	1/4	22.15	1/4		1/4		1/4	
1/2	1,769.34	1/2	1,475.59	1/2	1,181.77	1/2	889.22	1/2	600.20	1/2	306.17	1/2	17.04	1/2		1/2		1/2	
3/4	1,763.22	3/4	1,469.46	3/4	1,175.65	3/4	883.25	3/4	594.07	3/4	300.05	3/4	13.97	3/4		3/4		3/4	
4	1,757.10	4	1,463.34	4	1,169.53	4	877.27	4	587.94	4	293.92	4	10.91	4		4		4	
1/4	1,750.98	1/4	1,457.22	1/4	1,163.41	1/4	871.29	1/4	581.82	1/4	287.79	1/4	7.84	1/4		1/4		1/4	
1/2	1,744.86	1/2	1,451.10	1/2	1,157.29	1/2	865.31	1/2	575.69	1/2	281.67	1/2	4.77	1/2		1/2		1/2	
3/4	1,738.73	3/4	1,444.98	3/4	1,151.17	3/4	859.35	3/4	569.57	3/4	275.54	3/4	3.75	3/4		3/4		3/4	
5	1,732.61	5	1,438.86	5	1,145.05	5	853.39	5	563.44	5	269.42	5	2.72	5		5		5	
1/4	1,726.49	1/4	1,432.74	1/4	1,138.93	1/4	847.43	1/4	557.32	1/4	263.29	1/4	1.70	1/4		1/4		1/4	
1/2	1,720.37	1/2	1,426.62	1/2	1,132.80	1/2	841.46	1/2	551.19	1/2	257.17	1/2	0.68	1/2		1/2		1/2	
3/4	1,714.25	3/4	1,420.50	3/4	1,126.68	3/4	835.50	3/4	545.07	3/4	251.04	3/4		3/4		3/4		3/4	
6	1,708.13	6	1,414.37	6	1,120.56	6	829.54	6	538.94	6	244.92	6		6		6		6	
1/4	1,702.01	1/4	1,408.25	1/4	1,114.44	1/4	823.58	1/4	532.81	1/4	238.79	1/4		1/4		1/4		1/4	
1/2	1,695.89	1/2	1,402.13	1/2	1,108.32	1/2	817.62	1/2	526.69	1/2	232.67	1/2		1/2		1/2		1/2	
3/4	1,689.78	3/4	1,396.01	3/4	1,102.20	3/4	811.66	3/4	520.56	3/4	226.54	3/4		3/4		3/4		3/4	
7	1,683.66	7	1,389.89	7	1,096.08	7	805.69	7	514.44	7	220.41	7		7		7		7	
1/4	1,677.54	1/4	1,383.77	1/4	1,089.96	1/4	799.73	1/4	508.31	1/4	214.29	1/4		1/4		1/4		1/4	
1/2	1,671.42	1/2	1,377.65	1/2	1,083.84	1/2	793.77	1/2	502.19	1/2	208.16	1/2		1/2		1/2		1/2	
3/4	1,665.30	3/4	1,371.53	3/4	1,077.71	3/4	787.81	3/4	496.06	3/4	202.04	3/4		3/4		3/4		3/4	
8	1,659.18	8	1,365.41	8	1,071.59	8	781.85	8	489.94	8	195.91	8		8		8		8	
1/4	1,653.06	1/4	1,359.29	1/4	1,065.47	1/4	775.88	1/4	483.81	1/4	189.79	1/4		1/4		1/4		1/4	
1/2	1,646.95	1/2	1,353.16	1/2	1,059.35	1/2	769.92	1/2	477.69	1/2	183.66	1/2		1/2		1/2		1/2	
3/4	1,640.83	3/4	1,347.04	3/4	1,053.23	3/4	763.96	3/4	471.56	3/4	177.54	3/4		3/4		3/4		3/4	
9	1,634.71	9	1,340.92	9	1,047.11	9	758.00	9	465.43	9	171.41	9		9		9		9	
1/4	1,628.59	1/4	1,334.80	1/4	1,040.99	1/4	752.04	1/4	459.31	1/4	165.29	1/4		1/4		1/4		1/4	
1/2	1,622.47	1/2	1,328.68	1/2	1,034.87	1/2	746.08	1/2	453.18	1/2	159.16	1/2		1/2		1/2		1/2	
3/4	1,616.35	3/4	1,322.56	3/4	1,028.75	3/4	740.11	3/4	447.06	3/4	153.03	3/4		3/4		3/4		3/4	
10	1,610.23	10	1,316.44	10	1,022.62	10	734.15	10	440.93	10	146.90	10		10		10		10	
1/4	1,604.12	1/4	1,310.32	1/4	1,016.50	1/4	728.19	1/4	434.81	1/4	140.77	1/4		1/4		1/4		1/4	
1/2	1,598.00	1/2	1,304.20	1/2	1,010.38	1/2	722.23	1/2	428.68	1/2	134.64	1/2		1/2		1/2		1/2	
3/4	1,591.88	3/4	1,298.07	3/4	1,004.26	3/4	716.20	3/4	422.56	3/4	128.52	3/4		3/4		3/4		3/4	
11	1,585.76	11	1,291.95	11	998.14	11	710.18	11	416.43	11	122.40	11		11		11		11	
1/4	1,579.64	1/4	1,285.83	1/4	992.02	1/4	704.15	1/4	410.30	1/4	116.28	1/4		1/4		1/4		1/4	
1/2	1,573.52	1/2	1,279.71	1/2	985.90	1/2	698.13	1/2	404.18	1/2	110.16	1/2		1/2		1/2		1/2	
3/4	1,567.40	3/4	1,273.59	3/4	979.78	3/4	692.02	3/4	398.05	3/4	104.07	3/4		3/4		3/4		3/4	

STRAPPED: 06/28/2010 CL - SW
CALCULATED: 06/28/2010 CL
PRINTED: 06/28/2010 CL

CANCELS AND SUPERCEDES
ALL PRIOR TO 06/2010

CERTIFIED CHART FOR THE ABOVE NAMED TANK ONLY.

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